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SALARIES 1986
ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S
1986 SURVEY OF SALARIES AND EMPLOYMENT

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ACKNOWLEDGEMENTS

Each year, the American Chemical Society conducts salary surveys of its members. This report presents detailed results of the 1986 Comprehensive Salary and Employment Status Survey. A summary of these findings was published in the July 7, 1986 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS joint Board-Council Committee on Economic Status, headed by Attila E. Pavlath¹, and by its subcommittee on surveys, chaired by Jack G. Kay². The committee expresses its gratitude to the more than 10,000 ACS members who provided an invaluable service to the profession by completing the survey questionnaire.

Joan Burrelli and Nguyen Bailey of ACS Statistical Services, managed by John Robert Jones, conducted this year's survey and prepared this report. Dr. Burrelli wrote the summary and comment on the following pages.

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SUMMARY AND COMMENT
Joan S. Burrelli*

Employment and Unemployment

The overall unemployment rate among chemists increased in Spring, 1986 to 1.7%, after having been 1.4% in 1985. Though high, the unemployment rate was still less than the 2.2% unemployment in 1983. As unemployment and the percent of part-time workers increased, the percent of chemists employed full-time decreased .8 percentage points to 93.6% of all chemists. Each tenth of a percentage point represents approximately 92 ACS members in the U.S. work force.

Unemployment rates were not uniform for all chemists. Generally speaking, unemployment rates were higher for those chemists with only BS degrees, women, blacks, Hispanics, older chemists, and chemists employed in industry.

Degree

Unemployment was twice as high among BS chemists (2.6%) as among PhD chemists (1.3%).

Gender

The unemployment rate for women was 2.1%; for men 1.6%. This difference is partly due to the lower proportion of women holding advanced degrees. Whereas 59% of the men have PhD degrees, only 37.2% of the women do.

Racial or Ethnic Group

The unemployment rates for black chemists (2.9%) and for Hispanic chemists (3.2%) were higher than those for whites (1.7%) or Asians (1.7%). As is the case for women chemists, the higher unemployment rate for blacks and Hispanics is partly explained by the lower proportion of those two groups holding doctorate degrees in chemistry.

Age

Unemployment rates were highest for chemists in the 55-59 and 60-64 age groups (2.7% and 2.6% respectively). In previous years, unemployment tended to be higher in the younger age groups.

Type of Employer

Chemists employed in industry have a higher rate of unemployment (2.2%) than chemists in any other type of employment. The unemployment rate for chemists in academia is .8%, in government .3%, and in other nonacademic employment (e.g., hospitals, nonprofit organizations, self-employed) 1.6%. Among academics, a larger percent of chemists held postdoctoral fellowships in 1986 (6.8%) than in 1985 (6.2%).

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As the level of unemployment increased, the percent of chemists experiencing extended periods of unemployment increased. The length of unemployment for unemployed chemists was larger in 1985-86 than in previous years. More than 30% of those unemployed reported they had been unemployed for more than a year. Chemists most likely to be unemployed for extended periods of time were those in the West South Central region, older chemists, and chemists without advanced degrees.

Recruiting

The recruitment of recent graduates continued to decline during 1985-86. The College Placement Council's CPC Salary Survey, issued March 1986, showed a 20% decrease in the number of offers made to BS chemical engineering graduates during the 1985-86 academic year as compared with 1984-85 (579 vs 724 offers). Offers to BS chemists decreased by 26% (43 vs 58). Among new PhDs, a decrease of 15% was reported for chemical engineers (44 offers vs 52 offers). Offers to PhD chemists declined by 27% (46 vs 63).

Salaries

Despite higher unemployment, salaries continued to rise faster than inflation. The overall median salary for PhD chemists increased 9% (to \$47,800) while master's degree chemists reported an increase of 5% (to \$37,900) and bachelor's degree chemists' median salary increased 3% (to \$33,000). Because the Consumer Price Index rose only slightly from March to March, these salary increases represent increases in constant dollars. Prices as measured by the Consumer Price Index for Urban Workers increased approximately 2% from March 1985 to March 1986.

\$47,500 for PhD, up 9% from 1985, up 7% in constant dollars
 \$37,900 for MS, up 5% from 1985, up 3% in constant dollars
 \$33,000 for BS, up 3% from 1985, up 1% in constant dollars

Salaries differed only slightly by geographic region and local section.

PhD salaries were highest for chemists in industry. Academic salaries were lower than those in industry or government even after academic year salaries were adjusted to a 12-month basis. The median salary of PhDs in industry was \$50,000 and in government, \$47,550. The median adjusted salary of academic PhDs was \$42,700. Salaries within academia vary widely according to academic rank, school type, work function (e.g., teaching, administration), and length of experience. Academic salaries are generally higher for full professors, those in public institutions granting PhD degrees, those in administration, and those with greater experience. Salaries within industry vary according to type of industry, work function (e.g., management, applied research, basic research), specialty, and length of experience. Salaries for chemists employed in industry are generally higher for those working in the petroleum industry, those in R&D management, physical chemists, and those with greater experience.

As in the past, salaries for women chemists were lower than those for men. The average salary for women PhDs in industry and in government was 83% of that for men; in academia, 81%. The difference in men's and women's average salaries is

partly due to differences in experience. When salaries are adjusted for differences in length of experience, the salary gap narrows. For example, the adjusted mean salary for women PhDs in industry was 89% that for men. The difference in men's and women's average salary can also be explained by differences in work function and academic rank. Women are more likely to be in research and teaching and men are more likely to be in management and administration. Men are more likely to be full professors, women are more likely to be assistant professors.

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TECHNICAL NOTES

The target population of the 1986 Comprehensive Salary and Employment Status Survey was those ACS members who had U.S. mailing addresses, were not older than 70, and had neither student nor emeritus status. On January 31, 1986 the ACS membership totalled 129,346, of which 91,829 were eligible for inclusion in the survey. A systematic sample of 22,000 was selected from the target population.

The survey questionnaires were mailed to this sample of 22,000 members by bulk mail during the week of February 24-28. By the May 15 cut-off date, 10,795 (49.1%) usable questionnaires had been returned.

Definitions

For the purposes of the survey analysis only, the following definitions were used:

Unemployed: a respondent who is unemployed and seeking employment (category 4 of question 1d on the questionnaire).

Academic Salaries: For those respondents indicating academic year contracts, base salary figures were multiplied by 11/9 to provide a direct comparison with respondents on calendar year contracts.

This report represents the respondents' principal annual salaries as of March 1, 1986. The respondent's age is given as of March 1, 1986. A respondent's state and geographic region refer to place of residence rather than place of employment.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. A useful estimate of the representativeness of the sample proportion is the confidence interval. Such an interval estimate is illustrated in the following statement. "We assert with 95% confidence that the population proportion is between 0.04 and 0.06." A simple but adequate formula for a confidence interval centered on the sample proportion is,

$$\begin{aligned} p(\text{lower}) &= p - z[p(1-p)/n]^{1/2} \\ \text{and } p(\text{upper}) &= p + z[p(1-p)/n]^{1/2} \end{aligned}$$

where $p(\text{lower})$ = lower boundary of the interval
 $p(\text{upper})$ = upper boundary of the interval
 p = the sample proportion
 z = a function of the level of confidence
and is found in a table of the
standard normal distribution.
 n = the sample size

Inspection of the formula shows that the width of the confidence interval is inversely proportional to the square root of the sample size, so that proportions derived from small samples are not as precise as ones drawn from large samples. Also, if non-respondents differ from respondents with regard to the characteristics under consideration, the formula will overstate precision because the formula is based on assumption of 100% response.

Suppose a confidence interval is required for a group containing 1900 sample members. If the sample contains 95 persons with a specific characteristic, then the numbers that go into the formula are $p=95/1900=0.05$ and $n=1900$. For a 95% confidence interval, z is about 2. Putting these numbers into the formula above we have

$$\begin{aligned} p(\text{lower}) &= p - z[p(1-p)/n]^{\frac{1}{2}} \\ &= 0.05 - 2[0.05((0.95)/1900)]^{\frac{1}{2}} \\ &= 0.05 - 0.01 \\ &= 0.04 \end{aligned}$$

$$\begin{aligned} \text{and similarly, } p(\text{upper}) &= 0.05 + 0.01 \\ &= 0.06 \end{aligned}$$

Thus, a 95% confidence interval for p is from 4.0% to 6.0%. Although we cannot say that the population proportion is exactly 5.0%, we can be confident that it is between 4.0% and 6.0%. The 95% level of confidence means roughly that if this procedure were followed a large number of times using different samples of the same size, the population proportion would be within the calculated interval about 95% of the time.

Small Cell Count

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. In general, a cell containing fewer than 15 responses does not provide a useful estimate of the median salary, and a cell containing fewer than 25 responses does not provide a useful estimate of the 25th or the 75th salary percentile.

Median

If a sample of size n is arranged in ascending order of magnitude, the median M_d is given by the $((n+1)/100)$ th value. If $((n+1)/100)$ is not an integer, then the median is a weighted average of the two values whose ranks are closest to $((n+1)/100)$.

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that present information about PhD respondents should show the same total number of PhDs. They might, however, show different totals. To illustrate, if one table groups the PhDs according to specialty and the other groups them according to geographic region, the totals will differ unless the number who did not indicate their specialty is the same as the number who did not indicate their geographic region.

Comparing Salaries

Often questions arise concerning B.S. chemists' salaries as compared with M.S. chemists', or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the sample. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample size and the magnitudes of the sample standard deviations.

References for statistical tests of significance can be found in Numerical and Statistical Techniques, by J.H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and other similar texts.

1-1



GEOGRAPHIC REGIONS

PACIFIC

Alaska
California
Hawaii
Oregon
Washington

MOUNTAIN

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

WEST NORTH CENTRAL

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

WEST SOUTH CENTRAL

Arkansas
Louisiana
Oklahoma
Texas

EAST NORTH CENTRAL

Illinois
Indiana
Michigan
Ohio
Wisconsin

EAST SOUTH CENTRAL

Alabama
Kentucky
Mississippi
Tennessee

MIDDLE ATLANTIC

New Jersey
New York
Pennsylvania

SOUTH ATLANTIC

Delaware
District of Columbia
Florida
Georgia
Maryland
North Carolina
South Carolina
Virginia
West Virginia

NEW ENGLAND

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont



Table 0.1.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS
according to TYPE OF EMPLOYER and YEARS SINCE BS
1986 Survey of ACS Members

EMPLOYER TYPE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Industry	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	- 75th %ile
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	- 50th %ile
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	- 25th %ile
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	- Mean
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	- Std Dev
	46	216	335	216	157	109	85	110	149	49	3	1,475	- Count
Government	---	23300	31900	36800	39700	45050	50000	47800	54000	49500	---	40000	
	21000	19700	25750	30500	37000	37900	41100	39000	38000	38000	---	32000	
	---	18000	22250	25000	31500	28300	40000	33300	28600	31900	---	24600	
	21000	20563	26440	31788	37508	37024	44479	43229	41767	39933	---	33557	
	---	3822	6353	7594	9296	9158	10951	14819	13636	9787	---	11784	
	1	27	40	40	25	25	19	17	15	6	0	215	
Other Non-profit, Self-employed	19200	23000	30125	37250	43500	60000	41500	49875	61250	44500	---	40375	
	18000	19500	24600	33000	39850	51000	34000	41250	43800	38500	---	28000	
	16000	18000	20300	25950	24000	23100	23667	33600	28500	30875	---	21600	
	17767	20560	26103	33618	36170	45022	32858	42300	44460	38417	---	31513	
	2311	3996	8216	10365	9154	21586	10120	10410	22886	7088	---	14093	
	9	15	30	17	10	9	8	6	10	6	0	120	
High School	---	21511	21764	---	---	---	---	---	---	---	---	30220	
	17722	18333	19556	28111	22978	31778	36667	---	50355	29883	---	22006	
	---	14667	18639	---	---	---	---	---	---	---	---	18333	
	17722	17521	19986	28111	22978	31778	36667	---	50355	29883	---	23904	
	---	3930	1772	6914	---	---	---	---	---	6136	---	9190	
	1	7	4	2	1	1	1	0	1	2	0	20	
College/ University	17000	17000	24295	25050	31250	---	---	---	---	---	---	24000	
	17000	16000	23150	24000	24500	---	24500	24000	30000	---	---	18300	
	14000	13625	20650	22500	17225	---	---	---	---	---	---	16000	
	16000	15303	22346	23850	24383	---	24500	24000	30000	---	---	20297	
	1732	2404	3014	1399	7611	---	9192	---	---	---	---	5863	
	3	12	6	4	6	0	2	1	1	0	0	35	
No Response	---	---	33700	---	---	---	---	---	---	---	---	40739	
	39478	25100	27000	35600	38200	26400	45000	50000	---	36000	---	35600	
	---	---	12800	---	---	---	---	---	---	---	---	25750	
	39478	25100	24500	35600	38200	26400	45000	50000	---	36000	---	34137	
	---	---	11259	---	---	---	---	11314	---	---	---	11879	
	1	1	4	1	1	1	1	2	0	1	0	13	
TOTAL	24000	26425	33500	40000	45000	50000	50000	54675	55000	55650	40000	43000	
	21000	23550	28800	34100	38700	42900	42500	44800	47000	41500	25000	33000	
	18150	19675	24600	28000	31500	36000	35000	36200	39000	34056	19800	25500	
	21657	23659	29236	35078	38947	42367	43597	46384	47863	44962	28267	35492	
	4840	6166	6917	9503	10119	12185	13128	14935	15196	16636	10489	13454	
	61	278	419	280	200	145	116	136	176	64	3	1,878	

Table O.1.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS
according to TYPE OF EMPLOYER and YEARS SINCE BS
1986 Survey of ACS Members

EMPLOYER TYPE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Industry	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	- 75th %-ile
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	- 50th %-ile
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	- 25th %-ile
	---	27868	31915	37186	42148	45848	47258	51102	53029	55727	42850	42094	- Mean
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	- Std Dev
	0	25	167	207	182	121	84	86	83	36	2	993	- Count
Government	---	29900	32000	37500	35800	43550	53000	56000	58750	48000	---	44350	
	---	26300	26500	32700	34700	36500	41150	52100	47450	46300	30700	35500	
	---	23650	24000	26900	30000	33700	34500	39000	41750	32750	---	29000	
	---	26680	26858	32700	34857	38282	43550	45888	47163	41560	30700	37362	
	---	3275	6386	6771	7165	8162	10056	14845	14152	9757	---	11471	
	0	5	19	25	23	28	12	16	18	5	1	152	
Other Non-profit, Self-employed	---	30300	34800	35875	42000	43000	32000	---	51225	45000	---	40000	
	---	22850	30000	32000	37889	36000	25000	50000	44750	29250	---	33000	
	---	17125	24500	27200	32000	30000	20000	---	31125	23250	---	27000	
	---	23425	28821	32638	37653	38189	31857	50000	42350	31583	---	34000	
	---	7224	7734	6244	14005	10200	20219	---	11114	11647	---	11815	
	0	4	19	16	15	9	7	1	10	6	0	87	
High School	---	---	20778	29500	39111	41555	40333	47667	45583	42000	---	39111	
	---	---	17056	28111	30556	34345	36339	39111	41056	31778	---	33611	
	---	---	13250	17000	27500	25000	32000	36667	27653	29000	---	26000	
	---	---	17028	24801	31883	33564	37580	41148	38097	34259	---	32849	
	---	---	4083	8373	9698	10473	10259	5776	9970	6846	---	10781	
	0	0	4	7	7	14	14	3	4	3	0	56	
College/ University	---	23617	26000	35000	41300	40683	44061	49195	40000	45222	---	39111	
	---	22000	25000	28500	27711	33367	41555	36789	37584	34222	23223	30800	
	---	10956	20000	23344	25336	24350	33611	33703	33375	30556	---	25000	
	---	18229	23233	28542	30998	33339	37657	39824	35935	36595	23223	31838	
	---	7236	4076	7279	8718	9183	10751	7843	8258	8025	3457	9707	
	0	5	11	23	14	20	17	6	14	7	2	119	
No Response	---	---	---	43500	38000	---	---	---	---	75300	---	38850	
	---	31000	19500	38700	30000	38000	25000	---	---	39600	---	31000	
	---	---	---	23350	23222	---	---	---	---	27000	---	24111	
	---	31000	19500	34480	30407	38000	25000	---	---	47300	---	34460	
	---	---	707	10963	7397	---	---	---	---	26610	---	15782	
	0	1	2	5	3	1	1	0	0	4	0	17	
TOTAL	---	30000	34625	40000	46400	49000	52000	58800	56000	55500	42850	47075	
	---	26800	30000	35000	39156	40944	43144	48695	48500	45500	30700	37889	
	---	23000	26150	29500	33000	33617	35000	39308	40100	33611	23223	30150	
	---	26149	30407	35475	40105	42165	43752	49477	49064	48381	32569	39783	
	---	5738	6708	8618	10871	12931	14361	14550	14152	18014	11630	13298	
	0	40	222	283	244	193	135	112	129	61	5	1,424	

Table 0.1.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS
according to TYPE OF EMPLOYER and YEARS SINCE BS
1986 Survey of ACS Members

EMPLOYER TYPE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Industry	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	- 75th %-ile
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	- 50th %-ile
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	- 25th %-ile
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	- Mean
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	- Std Dev
	3	2	274	441	426	392	284	217	195	80	8	2,322	- Count
Government	---	---	42625	45000	50000	55950	56500	60675	67000	66000	---	56000	
	---	28500	34350	40750	42600	48000	49100	50650	57800	54000	28000	47550	
	---	---	28250	36600	35300	41250	42000	45000	48450	38700	---	40000	
	---	28500	35046	39997	42925	48268	50388	52173	56682	52991	28000	48006	
	---	---	7744	7482	8868	9457	9686	10881	11913	12422	---	11484	
	0	1	28	32	65	88	67	64	49	23	1	418	
Other Non-profit, Self-employed	---	---	39700	47400	58250	61500	56525	69200	70000	83875	---	61000	
	---	21000	35500	38600	45300	50000	49795	50000	59050	70000	70000	49000	
	---	---	32675	30125	39100	39311	37750	44000	51500	53500	---	37900	
	---	21000	35217	39038	50475	51143	47630	55246	59839	67072	70000	50828	
	---	---	6768	14403	18036	16990	13922	15572	14644	21628	---	17976	
	0	1	12	32	36	37	26	26	28	18	1	217	
High School	---	---	---	---	37800	80789	57078	67222	63555	---	---	52984	
	---	---	---	23222	30189	41555	31289	42778	48889	25667	---	35444	
	---	---	---	---	28111	27500	25300	31722	47000	---	---	27750	
	---	---	---	23222	32033	51627	36266	48133	53148	25667	---	41454	
	---	---	---	---	5101	28845	14788	23936	9062	---	---	19196	
	0	0	0	1	3	5	11	5	3	1	0	29	
College/ University	---	---	32875	36361	42945	49359	55000	60000	62800	73253	---	53289	
	---	7000	29167	30556	35444	42778	46444	50056	52555	59945	59400	42655	
	---	---	25542	26945	30000	35458	39000	41666	44500	48917	---	33336	
	---	7000	29278	31852	37692	43814	47368	51976	54273	60648	59400	44667	
	---	---	6133	7672	11600	12227	12631	14594	14927	16576	---	15204	
	0	1	68	165	192	296	212	200	139	88	1	1,362	
No Response	---	---	39000	37375	61766	52922	60000	57250	59667	84389	---	56550	
	---	---	26644	33667	51945	45000	48600	52000	50056	52889	---	47361	
	---	---	15000	29350	37681	35528	40333	41461	32750	45000	---	36917	
	---	---	26881	33772	50696	46699	50710	49960	49268	56678	---	48347	
	---	---	12002	4815	13600	17585	13813	8894	16439	25230	---	16164	
	0	0	3	6	8	25	23	17	10	10	0	102	
TOTAL	43500	32750	41300	47500	53325	60000	61600	66000	70000	71975	60000	58617	
	29000	28500	38400	41000	45000	49500	51700	53533	58800	60030	42000	47789	
	21500	14000	34850	35000	38225	41000	42778	45000	48892	50000	28000	39575	
	31333	24400	37548	41047	46403	51014	52946	55921	59742	60698	44645	49682	
	11184	10882	7253	9878	12834	14326	14619	15733	15803	17020	16658	15238	
	3	5	385	677	730	843	623	529	424	220	11	4,450	

Table 1.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Bachelors	24000	27000	33550	40000	45000	50000	50000	54450	55000	56500	40000	43000	- 75th %ile
	21350	24000	29000	34500	39000	43000	43000	45000	47000	42900	25000	33750	- 50th %ile
	18850	20575	25000	28000	32000	36000	35000	36200	39000	34500	19800	26000	- 25th %ile
	21713	24209	29476	35291	39490	42552	43987	46498	47952	45603	28267	35924	- Mean
	4201	5981	6826	9496	9842	12163	13062	14938	15222	16752	10489	13386	- Std Dev
	56	258	405	273	192	143	112	133	174	61	3	1,810	- Count
Masters	---	30000	34900	41850	47875	52550	55000	59700	58000	60000	51200	48500	
	---	27050	31000	35650	40000	41950	46000	50000	50000	49000	34500	38850	
	---	23750	26950	30550	33850	35000	36000	40000	43800	41200	30700	31600	
	---	27171	31160	36440	41079	44071	45779	50202	51116	51130	38800	40939	
	---	4612	6298	8232	10670	12842	14845	14783	13846	18019	10906	13302	
	0	34	205	248	220	158	103	103	111	47	3	1,232	
Doctorate	43500	33375	42000	48950	55900	62600	65000	69500	72750	71950	61250	60000	
	29000	30000	39150	43400	48000	54400	55000	56200	62600	60000	39400	49900	
	21500	22875	36900	39600	42300	45600	47050	48000	52000	51000	27725	42000	
	31333	28750	39441	44174	49593	55339	56706	58947	62994	61357	43170	52118	
	11184	5635	6002	8530	11726	13387	14383	15958	15372	16423	16784	14574	
	3	4	314	505	527	517	377	307	272	121	10	2,957	
No Response	---	---	---	---	---	---	---	---	---	---	50000	50000	
	---	---	---	---	---	---	---	---	---	---	36100	36100	
	---	---	---	---	---	---	---	---	---	---	26500	26500	
	---	---	---	---	---	---	---	---	---	---	40296	40296	
	---	---	---	---	---	---	---	---	---	---	15843	15843	
	0	0	0	0	0	0	0	0	0	0	45	45	
TOTAL	24100	27175	38775	45500	52000	60000	61000	64000	67000	68350	50000	53795	
	21700	24050	33000	40000	44500	50000	51000	52000	54000	54000	36100	43000	
	19000	21000	27500	33700	38000	41000	42000	42700	45000	43000	27450	34000	
	22202	24610	33216	39941	45532	50928	52398	54254	55928	55062	40102	44902	
	5059	5916	7851	9674	12033	14293	15316	16416	16558	18151	15577	15760	
	59	296	924	1,026	939	818	592	543	557	229	61	6,044	

Table 1.1.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Bachelors	23500	26700	35000	41000	46000	50000	52000	55000	56000	60000	---	45500	- 75th %ile
	21000	24000	30000	35000	39400	43600	43950	45700	48000	44000	32500	36000	- 50th %ile
	18300	20000	25900	28400	33500	36500	38000	37300	40000	35500	---	27500	- 25th %ile
	21429	24225	30405	35848	40273	42925	45444	47427	49323	47545	32500	37840	- Mean
	4501	6509	6994	9367	9760	12122	13048	13955	15044	16820	10607	13700	- Std Dev
	31	161	278	214	171	122	98	115	159	51	2	1,402	- Count
Masters	---	29850	35400	42300	48000	55000	56725	60000	60000	60900	---	50000	
	---	27050	31500	36000	40000	42500	47834	50000	51000	50000	42850	40400	
	---	22825	27700	31300	34700	35000	39375	41300	44000	43000	---	32500	
	---	26267	31576	37076	41722	45166	48219	51309	52114	52805	42850	42670	
	---	3615	6156	8529	10789	13272	14535	14666	13526	17738	11809	13707	
	0	18	137	185	186	133	82	95	104	43	2	985	
Doctorate	---	33375	42000	49000	56350	63750	65000	70000	72250	72056	66250	61000	
	36250	30000	39500	43650	49000	55000	55900	57600	62800	60000	54000	50000	
	---	22875	36975	40000	42750	46450	48000	48000	52000	51000	27500	42000	
	36250	28750	39676	44647	50139	56161	57173	59617	63233	61616	49500	53073	
	10253	5635	5965	8397	11920	13284	14294	15914	14937	16542	18908	14602	
	2	4	246	436	472	481	355	291	262	117	6	2,672	
No Response	---	---	---	---	---	---	---	---	---	---	50825	50825	
	---	---	---	---	---	---	---	---	---	---	39500	39500	
	---	---	---	---	---	---	---	---	---	---	25750	25750	
	---	---	---	---	---	---	---	---	---	---	41567	41567	
	---	---	---	---	---	---	---	---	---	---	16680	16680	
	0	0	0	0	0	0	0	0	0	0	36	36	
TOTAL	25500	27100	39550	46800	52650	60000	62200	65000	67000	70000	52400	55700	
	21000	24000	35000	40300	45000	51400	52600	52300	55000	55000	40000	45000	
	18550	20800	28500	34800	38450	42000	44000	44800	46000	44100	27500	36000	
	22327	24525	34098	40714	46215	51980	53652	55243	56818	56426	42263	46789	
	5931	6306	7760	9609	12124	14301	14952	16120	16042	17841	16533	15744	
	33	183	661	835	829	736	535	501	525	211	46	5,095	

Table 1.1.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - WOMEN Only
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40			
Bachelors	24050	27000	31900	38000	39000	45750	39625	45075	40000	44950	---	33500	- 75th %ile
	22500	24300	27200	31400	30000	38000	33800	36350	30000	31000	19000	27500	- 50th %ile
	19100	21000	23000	26000	27000	30950	28250	29525	28600	22200	---	23500	- 25th %ile
	22064	24181	27443	33271	33114	40390	33793	40561	33420	33889	19800	29283	- Mean
	3858	5015	5983	9764	8213	12475	7649	19586	7833	12366	---	9655	- Std Dev
	25	97	127	59	21	21	14	18	15	9	1	407	- Count
Masters	---	31750	34225	39900	43250	43500	42950	47700	41750	43500	---	40000	
	---	27600	29600	34000	36750	38000	37050	36000	32500	29250	30700	33000	
	---	24500	26000	29300	32550	34900	25500	29600	23500	26625	---	28000	
	---	28188	30321	34573	37562	38244	34950	38075	32600	33125	30700	33827	
	---	5467	6540	7024	9373	8248	10902	10541	9518	10053	---	8398	
	0	16	68	63	34	25	20	8	5	4	1	244	
Doctorate	---	---	42000	45900	50000	50000	56625	52975	80000	64425	42000	48000	
	21500	---	38850	41900	44750	45000	46450	45850	56250	53500	36800	42000	
	---	---	36500	37750	39600	36500	39700	38375	35500	43400	26900	37650	
	21500	---	38591	41187	45078	43863	49164	46769	56730	53775	35233	43174	
	---	---	6103	8817	8652	9063	14018	11462	24488	11320	7671	10737	
	1	0	68	69	54	35	22	16	10	4	3	282	
No Response	---	---	---	---	---	---	---	---	---	---	37950	37950	
	---	---	---	---	---	---	---	---	---	---	35000	35000	
	---	---	---	---	---	---	---	---	---	---	27500	27500	
	---	---	---	---	---	---	---	---	---	---	35211	35211	
	---	---	---	---	---	---	---	---	---	---	11273	11273	
	0	0	0	0	0	0	0	0	0	0	9	9	
TOTAL	24025	27350	36609	42300	47500	47550	48150	49225	45800	50500	37575	41200	
	22500	25000	30400	36200	41500	41000	39750	38500	37500	33000	33500	33350	
	19150	21500	25500	30000	33000	34900	30000	31900	28200	27250	26175	26000	
	22042	24749	31069	36560	40428	41228	40245	42452	41053	38388	33793	34675	
	3781	5247	7674	9245	9993	10011	13510	15449	18853	14033	10243	11329	
	26	113	263	191	109	81	56	42	30	17	14	942	

Table 1.2.1

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
according to SELECTED STATES and YEARS SINCE BS
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40		
California	21700 18800 15000 19943 5168 7	28000 25300 23000 26279 4853 19	38000 33600 28500 33700 7516 37	44000 36200 28400 37295 11069 37	49000 43400 37200 43357 10492 23	50750 43500 31500 43350 11289 10	53500 48000 40500 48092 12547 13	51800 40700 35200 43144 10072 9	53300 42750 35575 44007 11095 14	54500 47000 35750 45500 10840 5	---	45000 - 75th %ile 37000 - 50th %ile 29200 - 25th %ile 37677 - Mean 11804 - Std Dev 175 - Count
Texas	---	26000 25250 ---	38000 31800 26200 32600 4312	43500 40000 34000 39189 9475	50000 40900 32500 41377 10954	62150 51800 29375 47775 18022	73500 46500 39375 55417 23750	52100 51000 42000 48367 5541	68000 46000 33050 49062 24292	45000 28600 22200 33929 18645	---	46750 36000 26025 38445 16033 100
Illinois	25750 22100 18750 22200 3626 4	28000 23500 22000 24526 4342 23	33500 30700 26400 30033 5645 15	36000 30000 25900 31218 6649 17	45000 33400 28500 36107 9826 15	52000 47500 39000 48200 16135 7	50250 36500 30375 40313 11961 8	52650 40000 24900 39433 14215 9	52750 50000 40550 47867 13137 12	70450 45000 40450 53360 15909 5	---	42200 31000 24800 35058 12962 115
Michigan	---	26650 20500 ---	31075 28400 25525 28138 5021	43400 36000 28600 39091 11894	46500 43000 37750 43133 6482	44725 40600 37225 42738 7723	52100 39500 39000 43533 7423	66750 45400 33975 51850 24278	56000 52000 43000 50333 6658	71000 63500 41500 57700 17384	---	43000 32500 26050 36042 14053 88
Ohio	22425 20250 18300 21150 5377 8	26550 24800 23100 24592 3306 12	33675 27100 22850 28850 7822 24	38000 34000 25000 32958 7217 19	44850 39850 36825 40475 6406 8	49875 43500 30625 40783 11680 12	50750 43000 30600 44544 15865 9	52000 45750 38750 47114 13551 14	51875 46000 39250 45383 5852 12	60900 56000 29900 48933 16664 3	---	45000 34000 25100 35934 12595 121
New Jersey	25500 24000 21750 23700 2490 5	27500 25250 20575 24983 5209 24	32000 29100 26100 30147 6089 32	46850 36500 30500 37871 9763 21	49500 39000 37200 41615 8229 13	47900 44500 34650 40564 14875 14	45000 42000 30000 37829 8603 7	69000 45000 36200 51767 19424 12	60000 50500 40000 53746 18695 19	54750 37000 30575 40775 13446 4	---	45400 34300 27000 37465 14859 151
New York	26250 21000 15375 20875 5648 4	26000 24000 18750 24100 6162 17	34150 30000 26100 29479 6717 29	37150 29950 25450 32561 8572 18	46000 40500 34000 41990 13887 10	52750 47500 38500 43500 14402 8	58000 51000 47500 51771 7599 7	56000 43500 39675 48983 15683 6	65000 48000 39000 53693 20396 14	67500 50000 37400 51960 19588 5	---	45000 35000 25900 36888 15698 119
Pennsylvania	23500 23000 19500 22000 2179 3	27275 24750 20650 24314 4166 14	33300 29000 25750 29457 6080 37	37500 32150 27625 32875 7128 20	44525 36400 29375 37190 8725 10	46750 40500 36375 43840 14190 10	51700 36000 28850 40356 15490 9	51250 42750 31150 44719 16455 16	55350 46000 34000 46035 11730 17	48000 40000 31500 39367 10865 9	---	41750 32500 27100 35722 12431 145
Florida	---	24000 18000 ---	27050 24300 20700 23223 1662	39000 33700 31000 36386 4583	45000 33000 24750 34250 10595	---	47250 43500 35700 43500 6204	39000 38000 22500 33167 9251	74500 44000 24750 47750 26285	---	---	39000 31000 23000 34372 14412 39
No Response	25000 22500 19150 22040 3978 20	26750 23000 19500 23644 7315 117	33000 28000 24000 28665 6576 178	39675 35000 27625 34899 9665 104	43000 38000 31000 38201 9631 87	50000 40000 35050 41918 11392 68	50500 41550 35000 42519 11779 46	57000 45600 36600 47184 13812 55	55250 47000 39750 46564 13189 66	56250 40500 33500 45531 17923 16	---	42000 31000 25000 34961 12819 757
TOTAL	24000 21350 18050 21713 4201 56	27000 24000 20575 24209 5981 258	33550 29000 25000 29476 6826 405	40000 34500 28000 35291 9496 273	45000 39000 32000 39490 9842 192	50000 43000 36000 42552 12163 143	50000 43000 35000 43987 13062 112	54450 45000 36200 46498 14938 133	55000 47000 39000 47952 15222 174	56500 42900 34500 45603 16752 61	40000 25000 19800 28267 10489 3	43000 33750 26000 35924 13386 1,810

Table 1.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
according to SELECTED STATES and YEARS SINCE BS
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
California	---	---	36750	40600	52600	43500	56350	63475	75225	59000	---	48550	- 75th %ile
	---	30100	31800	37000	41750	36000	46000	60000	49000	52000	51200	37000	- 50th %ile
	---	---	27825	29500	33000	34950	28550	50300	30500	39611	---	30750	- 25th %ile
	---	30100	32687	36685	42795	38300	44315	57417	51575	49844	51200	39921	- Mean
	---	2687	6582	8250	12198	7668	17767	7435	23689	10861	---	12471	- Std Dev
	0	2	30	27	24	9	13	6	4	5	1	121	- Count
Texas	---	---	37750	46800	48375	60500	44800	44000	55400	---	---	47500	
	---	27100	31500	37800	42200	51500	38100	33500	49600	53100	---	39300	
	---	---	25000	30100	36950	35000	31025	30450	45625	---	---	31875	
	---	27100	32233	37440	43400	48500	37975	36967	50983	53100	---	39916	
	---	1131	7426	10655	9036	12865	7675	10191	9234	---	---	11057	
	0	2	9	15	10	5	4	6	6	1	0	58	
Illinois	---	26925	34500	45000	48750	55100	43625	77775	74850	50000	---	45425	
	---	22550	31000	37200	43750	43050	41500	43500	46000	50000	---	37400	
	---	22000	26850	29500	31000	35500	36750	34875	43000	43000	---	30000	
	---	23825	30976	38417	42292	43538	39250	52050	56340	47667	---	39187	
	---	3006	5251	10349	14047	12743	7575	25008	19009	4041	---	13374	
	0	4	17	23	12	8	6	4	5	3	0	82	
Michigan	---	26900	32300	39000	47975	65000	56000	57500	69000	---	---	48292	
	---	26400	29500	34800	43000	44000	50000	43200	60500	26000	---	37000	
	---	23500	26400	26000	38000	33325	41700	41400	18000	---	---	29250	
	---	25440	29367	32960	43483	47538	45963	48200	49000	26000	---	39569	
	---	1823	3140	8714	8483	16458	16167	10046	27221	---	---	13924	
	0	5	12	5	12	8	9	5	3	1	0	60	
Ohio	---	---	37000	38750	50000	51900	63650	56500	54500	57000	---	50000	
	---	26500	32400	35900	43000	44100	50300	39000	44950	46050	---	42100	
	---	---	28000	33025	35000	41500	41500	34750	38425	43275	---	34600	
	---	26500	30035	37006	41500	46038	52467	44300	46236	48775	---	42765	
	---	---	10670	6316	8498	8533	13223	12538	9885	7785	---	11060	
	0	1	7	16	10	13	9	5	14	4	0	79	
New Jersey	---	32500	35350	45000	55475	52400	53500	66650	73825	77500	---	50000	
	---	30000	30500	35750	45450	41100	40000	60250	52100	68400	---	40000	
	---	25000	26700	30725	36150	35250	37600	45400	43650	58700	---	32500	
	---	29167	31438	37121	45833	45175	44440	60063	57775	68200	---	43352	
	---	3819	6855	8952	10216	16612	11657	17123	19485	9887	---	15549	
	0	3	21	24	18	24	5	8	8	4	0	115	
New York	---	34125	39000	40000	50000	56325	59500	51900	57000	46500	---	49000	
	---	30000	32000	35000	37000	49000	53000	42700	51167	43000	---	40000	
	---	20625	27500	26000	34700	38000	26250	36000	43250	35500	---	32000	
	---	28250	32788	35143	39827	47270	46250	44367	53123	41400	---	40852	
	---	7621	7653	7642	8429	11371	19276	12864	14140	6877	---	12338	
	0	4	17	7	15	10	4	9	10	5	0	81	
Pennsylvania	---	28900	36600	42750	44200	55500	61530	53250	59200	---	---	51550	
	---	26900	34900	36000	40500	45500	46600	51500	51800	55000	---	40350	
	---	26000	26000	32100	36000	32000	33500	39400	48950	---	---	34000	
	---	27267	32325	37371	41953	44220	48233	47867	52225	55000	---	42709	
	---	1484	6420	8338	9901	11913	15255	7372	10144	7071	---	11723	
	0	3	8	17	19	10	9	6	12	2	0	86	
Florida	---	---	33000	---	---	---	---	---	---	---	---	45000	
	---	---	30000	45000	34000	43000	48500	---	60000	31200	---	35000	
	---	---	24000	---	---	---	---	---	---	---	---	31200	
	---	---	29000	45000	34000	43000	48500	---	60000	31200	---	41564	
	---	---	4583	---	---	---	16263	---	35355	---	---	17276	
	0	0	3	1	1	1	2	0	2	1	0	11	
No Response	---	30250	34750	40000	44000	49000	54250	59775	58000	76000	---	48000	
	---	29050	30000	35000	38000	40000	46000	51000	50000	49000	32600	38000	
	---	22750	26400	30000	33000	33875	33500	41225	44000	35700	---	30700	
	---	27810	30427	35640	39176	42954	45895	51389	49904	53129	32600	40602	
	---	6209	5821	7594	10862	12796	15573	15156	12177	23308	2687	13670	
	0	10	81	113	99	70	42	54	47	21	2	539	
TOTAL	---	30000	34900	41850	47875	52550	55000	59700	58000	60000	51200	48500	
	---	27050	31000	35650	40000	41950	46000	50000	50000	49000	34500	38850	
	---	23750	26950	30550	33850	35000	36000	40000	43800	41200	30700	31600	
	---	27171	31160	36440	41079	44071	45779	50282	51116	51130	38800	40939	
	---	4612	6298	8232	10670	12842	14845	14783	13846	18019	10906	13302	
	0	34	205	248	220	158	103	103	111	47	3	1,232	

Table 1.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
according to SELECTED STATES and YEARS SINCE BS
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40			
California	---	---	46500	50525	58500	70000	69000	77750	73500	81000	---	62925	- 75th %-ile
	---	31500	40250	42750	50500	58900	57050	64500	63400	70000	60000	51000	- 50th %-ile
	---	---	35475	39750	45150	45200	50100	50000	53000	54000	---	44000	- 25th %-ile
	---	31500	41768	44803	52961	58333	56769	64129	64990	67127	60000	54115	- Mean
	---	---	12111	12134	10306	15138	14623	16639	13657	15339	---	15256	- Std Dev
	0	1	28	58	69	39	32	30	29	11	1	298	- Count
Texas	---	---	40450	50625	57750	73000	65000	78667	72250	86500	---	60900	
	---	34000	39500	45000	50000	56000	57500	70500	59000	65000	---	50700	
	---	---	35000	39400	39350	50500	41100	56225	41000	48917	---	40050	
	---	34000	38115	45200	49557	58948	57867	67812	57389	66806	---	52839	
	---	---	4048	7222	11419	12369	18323	12568	15799	19640	---	14751	
	0	1	13	24	21	23	15	10	9	4	0	120	
Illinois	---	---	43590	45250	60000	74500	64250	62000	79500	81675	---	60000	
	---	---	40000	42000	49600	56650	55550	52000	65800	57000	---	49300	
	---	---	37375	39450	39800	46075	48225	47000	49500	36917	---	42075	
	---	---	40389	42672	49948	58622	56769	55296	65771	57640	---	52867	
	---	---	4580	6392	10810	16065	13905	11854	16006	22032	---	14687	
	0	0	18	29	27	32	26	23	17	8	0	180	
Michigan	---	---	38925	47500	55500	56800	73000	85000	68500	76500	---	55750	
	25250	---	38100	42800	51000	53500	56000	54200	60000	63100	---	47500	
	---	---	36450	40100	43000	46250	45750	47700	52050	49175	---	40300	
	25250	---	38178	43733	49779	52188	59672	62653	59367	62925	---	50148	
	5303	---	2041	7427	10431	7776	16253	18875	9683	14418	---	14118	
	2	0	18	43	19	16	18	19	6	4	0	145	
Ohio	---	---	41000	48000	53750	60125	59100	68000	65000	74550	---	58000	
	43500	28500	39300	44950	48000	47000	53300	53450	52000	64750	---	48000	
	---	---	36300	39000	42300	43475	47775	48000	40000	60000	---	41000	
	43500	28500	39306	43686	49076	51800	54453	54459	53760	66950	---	50190	
	---	---	3312	9003	9257	12176	10141	14302	15247	12171	---	12444	
	1	1	16	28	25	28	26	24	15	6	0	170	
New Jersey	---	---	44000	51800	53450	69250	74000	83500	80000	72600	---	65000	
	---	---	39600	45600	48900	59000	59500	67000	73000	63000	65000	51000	
	---	---	36900	41925	42525	48000	49000	50500	60100	50000	---	42475	
	---	---	41031	46730	49030	58716	61351	54668	71140	59979	65000	54453	
	---	---	5790	7749	12729	14870	14648	22294	14968	17909	---	16058	
	0	0	35	60	46	49	39	25	20	19	1	294	
New York	---	---	42950	48000	58750	59500	65000	75250	72250	73456	---	60200	
	---	---	40000	44000	48000	51000	53000	60200	66600	66000	---	48300	
	---	---	38100	39000	41250	42750	44000	48200	59700	55600	---	41500	
	---	---	40483	43294	49203	50199	54063	60504	65650	64257	---	51572	
	---	---	3749	6100	11546	10187	12289	16062	14090	13024	---	13645	
	0	0	24	47	29	32	27	25	26	9	0	218	
Pennsylvania	---	---	42500	49000	55000	60000	60050	59000	73500	83108	---	55825	
	---	21000	40400	44000	49750	52500	50400	51000	64000	52500	---	48000	
	---	---	38500	40000	43000	46000	43000	45750	52000	43425	---	41225	
	---	21000	41059	45374	49716	52946	51550	54188	62700	60374	---	50185	
	---	---	4339	7899	11209	12946	16074	13383	15456	22108	---	13214	
	0	1	29	43	50	39	18	17	21	6	0	224	
Florida	---	---	45400	51489	46250	64250	67500	55000	---	---	---	53778	
	---	---	41500	42900	40500	53800	58000	47000	---	43000	---	44000	
	---	---	38350	37500	33575	42750	44000	45500	---	---	---	40000	
	---	---	41750	44176	40420	53267	56290	49167	---	43000	---	46462	
	---	---	3653	7428	10507	10753	13236	5107	---	11314	---	10835	
	0	0	4	5	10	6	5	3	0	2	0	35	
No Response	---	---	41300	48450	56000	62350	64500	67000	70250	70000	46500	60000	
	---	---	34000	42300	47000	54000	55000	56000	61000	59750	32900	49850	
	---	---	36000	37850	42000	45800	46600	46078	50000	51650	27175	41514	
	---	---	38071	43289	49121	55151	56528	57462	62265	60344	38338	52008	
	---	---	5465	8679	12434	13142	14463	14870	15714	15813	15065	14684	
	0	0	129	168	231	253	171	131	129	52	8	1,272	
TOTAL	43500	33375	42000	48950	55900	62600	65000	69500	72750	71950	61250	60000	
	29000	30000	39150	43400	48000	54400	55000	56200	62600	60000	39400	49900	
	21500	22875	36900	39600	42300	45600	47050	48000	52000	51000	27725	42000	
	31333	28750	39441	44174	49593	55339	56706	58947	62994	61357	43170	52118	
	11184	5635	6002	8530	11726	13387	14383	15958	15372	16423	16784	14574	
	3	4	314	505	527	517	377	307	272	121	10	2,957	

Table 1.3.1

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
according to LOCAL SECTION and YEARS SINCE BS
1986 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	No Resp	
Orange County	---	---	34800	35600	---	---	---	41775	---	---	---	46250
	22100	26750	32100	29300	39100	---	49000	51800	54900	47500	---	51300
	---	---	37100	38200	---	---	---	39750	---	---	---	29225
	22600	26750	31111	30347	39100	---	49000	51800	52525	47000	---	56871
	10607	8132	5451	4780	9150	---	---	4202	12093	---	---	12316
	2	2	9	2	2	0	1	2	4	1	0	26
Santa Clara	---	28875	36950	43750	48000	43750	---	---	55100	---	---	43750
	18800	25150	30200	30500	47900	37500	57000	47100	36500	49000	---	33100
	---	21400	27475	25200	30250	30500	---	---	34725	---	---	25325
	18800	24800	30413	36167	41750	37250	57000	47100	42625	49000	---	35578
	---	5371	6823	12695	11208	7274	---	18243	11958	---	---	11895
	1	5	8	9	6	4	1	2	4	1	0	40
Southern California	---	---	35000	37000	44000	44000	---	49900	---	45500	---	44500
	14800	33500	32500	34850	37650	51500	48000	31600	42000	60000	---	36300
	---	21800	30750	35000	31825	---	38000	---	29500	---	---	31000
	14000	30475	34547	38450	37925	51800	43800	31600	38800	60000	---	37442
	---	6885	1913	6999	6541	1776	7855	3677	6125	---	---	4684
	1	5	12	8	4	2	5	2	5	3	0	45
California	---	24750	44700	48700	58500	57000	---	---	---	---	---	48750
	20500	25150	30000	40000	49000	45000	60000	---	43500	---	40000	39800
	---	20700	24425	30000	35900	28500	---	---	---	---	---	24500
	20000	24050	34613	41073	47189	45167	60050	---	41500	---	40000	38995
	2404	2852	11036	13698	12780	16751	22840	---	---	---	---	14683
	2	6	6	11	9	3	2	0	3	0	1	41
Chicago	25800	28000	33200	36275	45000	50900	51500	56400	54000	75700	---	45000
	24200	23800	28700	30300	33400	44750	43000	40000	50000	54800	---	30700
	25500	23000	24225	27675	38900	36275	33125	24700	41100	41675	---	24700
	22740	26115	28944	32171	38364	46047	43553	38746	34415	56441	---	35792
	3381	11620	6353	6692	9098	17671	11604	14793	12732	18946	---	14643
	5	2	16	14	11	6	6	7	13	6	0	107
Cleveland	20700	21400	30100	38000	---	57325	---	49500	53500	---	---	44500
	19700	25000	27200	36000	---	38750	---	48000	45000	51750	58000	31000
	16700	18500	23400	31000	---	26800	---	44500	37325	---	---	24200
	16880	23720	27791	34357	---	39125	40000	46600	47633	58000	---	34011
	2579	5049	5145	6003	---	13942	---	3209	8711	---	---	11577
	5	5	11	7	0	4	1	5	6	2	0	45
Minnesota	---	28900	34300	---	51000	43000	---	---	---	---	---	55500
	20300	27600	32000	40000	45000	39950	33000	58000	67500	---	---	39000
	---	23700	21750	---	19000	35475	---	---	---	---	---	25100
	20300	28545	36010	40000	45461	39475	33000	58000	67500	---	---	38124
	---	2740	3352	---	7024	4119	21213	36075	24749	---	---	34070
	1	5	5	1	3	4	2	2	2	0	0	25
New York	---	25040	32700	36500	48800	58000	---	71700	87500	67500	---	42000
	23500	24000	28000	30500	43500	46000	48750	43450	49000	19800	---	31000
	---	14900	25900	25400	30000	41000	---	39275	43000	30000	---	25800
	23500	23853	27995	31164	43500	48647	48750	51475	60250	66940	---	35714
	5637	4925	5906	5560	4655	7234	1768	19300	23951	73091	---	16570
	2	15	23	11	4	3	2	4	8	5	0	75
Northeastern	24400	27750	38000	50900	47100	52000	41100	45000	54000	41000	---	40500
	21800	23300	30900	36000	30500	44000	35000	42000	45000	35000	18000	31900
	16500	20750	25350	30500	23425	36475	11900	36000	42900	41000	---	24850
	20900	24655	35574	40956	36933	43861	37714	42714	48200	35647	18000	34177
	4263	8434	6714	12444	13903	8768	7795	10584	8447	5033	---	11444
	4	22	23	9	6	6	1	2	31	2	1	97
North Jersey	25500	26975	33000	48775	53000	53000	45750	60000	58750	61800	---	46825
	24000	25250	28700	38900	42000	44000	48000	38500	51750	57000	---	35000
	21700	23800	27100	31900	35000	30900	35900	42750	47150	32950	---	27000
	23700	25189	30885	38300	45027	39691	38250	54771	54030	48940	---	38701
	2490	4384	6179	8892	12678	15910	8421	22502	16854	15733	---	15186
	5	16	27	14	11	11	4	7	16	5	0	118
Philadelphia	23175	25500	31500	40000	44125	71100	---	48200	40500	52650	---	41450
	21250	23500	28900	32300	40650	47200	45500	41000	48200	41300	---	32000
	16375	18500	21975	26775	32650	37000	---	36500	31500	33925	---	25550
	21000	22169	29854	34106	38938	52840	45500	43633	45160	41217	---	35550
	2677	3447	6224	13051	6875	18547	31620	11394	14660	12219	---	13190
	4	13	26	18	6	5	2	15	10	6	0	105
Pittsburgh	---	---	32500	---	---	43000	56500	66400	49000	---	---	45000
	---	29050	29000	35000	50000	40000	39500	58000	48000	---	---	35300
	---	---	2100	---	---	12050	24825	31400	44500	---	---	28100
	---	29050	27411	35000	50000	38070	40125	67333	47200	---	---	38448
	---	1344	4023	14142	---	6403	16313	10999	2307	---	---	16388
	0	2	9	2	1	5	4	2	1	0	0	29
Southeastern Texas	---	---	39500	43175	51750	---	---	---	60000	54500	---	49250
	25200	21000	35500	38900	41000	57500	65000	55000	47500	27200	25000	38000
	---	---	28400	32750	32750	---	50000	---	29500	16350	---	26975
	25200	21000	34833	39429	43043	57500	71333	55000	46167	32780	25000	40100
	4996	4263	9101	9918	11431	10807	25106	---	21931	21956	---	16409
	2	2	12	16	6	2	3	1	6	5	1	54
St. Louis	---	---	36075	46200	48725	---	---	---	67000	---	---	44700
	22500	25500	32700	38550	37500	49800	---	45700	29100	48000	---	33700
	---	---	25000	31400	26500	---	---	---	28100	---	---	28275
	22500	25500	31492	40550	37575	49000	---	45100	41733	48000	---	32000
	0	---	5874	9879	12274	5940	---	---	21882	---	---	11180
	2	1	12	6	4	2	0	1	3	1	0	32
Washington, D.C.	---	24450	36250	46450	---	64500	76000	70000	---	---	---	48300
	18550	20800	25700	40100	49650	45100	41000	63000	57550	---	---	34000
	---	17150	22100	36900	---	34500	40010	40000	---	---	---	27650
	18550	21744	28143	41000	49650	48420	52333	57600	57550	---	---	37745
	1485	4315	8658	8477	5162	17920	20502	15189	15744	---	---	11494
	2	9	14	5	2	5	2	2	2	0	0	49
Other Local Section	27125	26400	32750	38000	43200	50000	49700	52000	55750	53750	---	42000
	22700	23900	28000	32700	37300	40000	42000	42500	45000	39100	---	33000
	18203	20050	24000	27000	31350	36600	38000	33975	37250	31125	---	26000
	22450	23644	28224	33508	38066	40764	42720	44323	46399	43015	---	34951
	5323	4661	6455	8271	8999	11098	11274	14168	15216	16854	---	12285
	16	112	185	131	109	77	64	62	76	20	0	852
No Response	---	28250	38000	44950	49000	52750	58000	58000	57000	75150	---	47000
	21950	23950	32000	36700	37200	47400	43000	51750	47000	45500	---	38000
	---	18650	25800	31025	29850	42800	41500	38000	39250	36750	---	28025
	21950	23617	31791	40710	39400	47550	48400	50917	47750	52167	---	38838
	1344	7823	5474	13444	11499	4900	8762	12571	9465	19914	---	14761
	2	12	11	10	8	4	5	4	6	0	0	68
TOTAL	24000	27000	33500	40000	45000	50000	50000	54500	55000	56500	40000	43000
	21300	24000	29000	34500	41000	43000	43000	47000	47000	47000	25000	33750
	18850	20575	25000	28000	32000	36000	35000	36200	34500	34000	19000	26000
	21713	24209	29478	35291	39490	42552	43987	46498	47952	45603	28267	35924
	4201	5981	6826	9486	8942	12163	13062	14938	15222			

Table 1.3.2

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
according to LOCAL SECTION and YEARS SINCE BS
1986 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	No Resp	
Grange County	---	---	---	---	54000	56200	---	---	---	---	---	51200
---	26100	31100	37000	38000	39000	40000	---	---	---	---	---	36000
---	---	---	---	---	31000	34000	---	---	---	---	---	33000
---	26100	31100	37000	44000	47000	48000	---	---	---	---	---	41400
---	---	---	---	---	35100	37100	---	---	---	---	---	37000
0	1	2	3	4	5	6	7	8	9	10	11	Count
Santa Clara	---	---	40000	40000	55000	---	72100	---	---	---	---	51700
---	---	32000	36000	39000	45000	56100	64000	---	44611	---	---	40700
---	---	30710	29500	40000	---	28000	---	---	---	---	---	32200
---	---	34517	35914	44471	45000	52175	64000	---	44611	---	---	42500
---	---	5269	6293	11230	---	23613	---	---	18692	---	---	12100
0	0	0	0	1	1	1	4	1	0	2	0	28
Southern California	---	---	39000	44850	39975	---	54150	---	---	---	---	46300
---	---	32400	36400	33300	21800	46000	54900	---	57500	---	---	36000
---	---	28000	28600	26325	---	28000	---	---	---	---	---	28500
---	---	51018	37425	44117	21800	42000	54900	---	51500	---	---	38114
---	---	5623	11261	10174	---	16746	6930	---	7774	---	---	17010
0	0	11	12	6	1	5	2	0	2	0	0	19
California	---	---	34814	42100	55400	41500	---	---	---	---	---	48250
---	---	32900	31600	38000	39000	36000	36000	60750	79300	---	---	36500
---	---	---	27250	31250	36000	36750	---	---	---	---	---	32000
---	---	32900	32488	37100	47800	37700	36000	60750	79300	---	---	38971
---	---	---	8372	5642	8906	3633	22627	3696	---	---	---	11052
0	1	6	6	3	5	2	2	1	0	0	0	28
Chicago	---	26925	37250	49375	48000	54450	45000	88700	80925	50000	---	45750
---	---	27500	31600	37100	49000	45100	42700	45000	54300	50000	---	37300
---	---	25000	27475	31250	31000	33750	31825	42000	43000	43000	---	30750
---	---	23025	32018	39140	41400	45000	40100	56647	54625	47647	---	39004
---	---	3095	5893	10186	14379	22407	8904	26118	20453	4061	---	19673
0	4	16	20	11	6	6	3	4	3	0	0	73
Cleveland	---	---	---	40715	---	---	---	---	---	---	---	50375
---	---	35750	36100	43500	56450	47000	44500	46700	---	---	---	42000
---	---	---	32950	---	---	---	---	---	---	---	---	36500
---	---	35750	36615	44500	56450	47000	44500	46700	---	---	---	43271
---	---	2768	4146	---	7000	---	7718	6718	---	---	---	8260
0	0	2	4	1	2	1	2	2	0	0	0	14
Minnesota	---	---	---	45000	49000	72000	---	---	---	---	---	45400
---	---	26100	36000	42000	39600	42100	---	---	---	---	---	38800
---	---	---	27000	32750	39000	---	---	---	---	---	---	35750
---	---	26100	31800	38000	47100	42000	---	---	---	---	---	38518
---	---	141	769	14619	22007	6061	---	---	---	---	---	12757
0	0	2	7	8	3	2	0	0	0	0	0	22
New York	---	---	38500	35900	48000	61000	---	49000	59000	48000	---	48000
---	---	23150	32400	29650	36000	51000	34500	36500	48617	45000	---	37000
---	---	---	27750	24000	34715	39000	---	32750	41750	49000	---	32000
---	---	23150	31544	40417	39025	50541	34500	41667	53542	41000	---	40201
---	---	8818	7233	4709	8748	11918	23115	14949	16090	9644	---	11922
0	2	9	6	8	7	2	6	6	3	0	0	51
Northeastern	---	---	36525	42750	42750	67000	70000	60100	65500	---	---	48500
---	---	28100	31000	36400	36900	51350	42000	51650	50500	49000	---	39100
---	---	---	28500	30375	32500	49000	27000	46675	41300	---	---	31900
---	---	28100	32250	36400	38750	51500	47867	57000	51267	43000	---	43002
---	---	---	5570	5061	8091	12100	23133	16730	11960	---	---	15478
0	1	8	18	14	6	7	8	3	1	0	0	66
North Jersey	---	37600	35675	45000	56475	58500	51250	81100	73875	77500	---	52500
---	---	30900	31850	37750	39000	45000	29250	45000	54750	58700	---	41100
---	---	25000	27275	30725	36400	36000	37150	52950	41650	58700	---	31000
---	---	29167	32081	37445	47281	48751	42550	66620	57775	68250	---	44761
---	---	3619	5709	9205	13270	18167	8409	18001	18485	9667	---	15167
0	1	16	20	18	17	4	5	6	4	0	0	81
Philadelphia	---	37225	36800	46500	45750	54025	60750	55500	64400	---	---	51900
---	---	27950	30900	36800	38100	48000	46100	53000	56800	55000	---	39000
---	---	26325	27000	31350	36000	37375	33875	44500	39000	---	---	31350
---	---	40450	39704	39531	40925	45700	48613	48667	51040	55000	---	41674
---	---	5680	7448	9117	9400	13042	16714	11117	16726	7871	---	12668
0	4	0	13	0	6	6	6	5	2	0	0	63
Pittsburgh	---	---	33500	37500	---	57000	---	---	---	---	---	54000
---	---	29200	36750	44600	50000	61000	---	---	51000	---	---	38000
---	---	24600	27425	---	54000	---	---	---	---	---	---	32000
---	---	29100	33825	44600	50333	51000	---	---	51000	---	---	41207
---	---	44800	5851	566	1528	---	---	---	---	---	---	12245
0	0	6	4	2	3	1	0	1	0	0	0	15
Southeastern Texas	---	---	---	45400	58125	---	---	54000	---	---	---	45450
---	---	27900	31250	37800	43000	---	45000	40000	54000	---	---	40000
---	---	---	---	27300	39200	---	---	31500	---	---	---	29875
---	---	27900	31250	34878	46715	---	45000	42500	54000	---	---	39832
---	---	---	8838	11413	10811	---	12440	19799	---	---	---	12582
0	1	2	0	4	0	1	1	2	0	0	0	20
St. Louis	---	---	32200	38875	50100	54500	---	59000	---	---	---	49750
---	---	---	29100	32500	46400	35350	---	50000	61100	54000	---	35350
---	---	---	29100	29075	39600	32000	---	29100	---	---	---	29900
---	---	---	29743	33433	43960	43783	---	46100	61100	54000	---	40183
---	---	3594	5154	8076	18372	---	15279	12869	---	---	---	23318
0	0	7	4	5	6	0	3	2	2	0	0	30
Washington, D.C.	---	---	34800	41750	50100	47950	40400	63500	67000	---	---	50100
---	---	22000	28100	36000	46500	42500	32000	57000	61000	58250	30700	40700
---	---	---	25650	34300	32125	39700	22000	46000	58000	---	---	32000
---	---	22000	29800	37550	42667	43067	31467	55200	62000	58250	30700	42611
---	---	---	5086	4001	9108	4857	9212	10592	5581	43487	---	14700
0	1	5	6	6	6	3	5	3	2	1	0	36
Other Local Section	---	30000	33000	40100	44500	48725	56950	54500	55475	57500	---	48000
---	---	26850	30000	35000	38900	40550	49700	46250	49000	44100	34500	38900
---	---	24575	25100	30175	31000	33000	36000	39000	44000	34500	---	31000
---	---	27081	29973	35046	40030	42082	47314	47660	48615	47764	34500	40611
---	---	4209	6341	7782	10794	12050	14365	14255	12335	18546	---	12970
0	16	85	104	104	78	53	52	68	25	1	0	588
No Response	---	---	41472	44500	48500	47375	55000	61000	---	---	---	48000
---	---	31000	34000	38950	36000	52000	50000	47900	45000	---	---	37000
---	---	27300	33250	34425	31200	30700	40900	---	---	---	---	32500
---	---	33965	37000	40870	39063	45900	51560	47900	45000	---	---	40214
---	---	7294	9044	7695	8590	11249	12185	5798	---	---	---	9615
0	0	11	5	10	8	3	5	2	1	0	0	47
TOTAL	---	30000	34900	41850	47815	52550	55000	58700	58000	60000	51700	48900
---	---	27000	31000	35400	40000	41400	46000	50000	56000	49000	34500	38600
---	---	23750	28950	30550	33850	35000	36000	40000	43800	41200	30700	31600
---	---	27171	31160	36440	41079	44071	45779	50282	51116	51130	38800	40818
---	---	4612	6290	8232	10670	12842	14845	14783	13844	18019	12906	13302
0	34	205	248	220	198	103	103	161	47	3	1	1,232

Table 1.3.3

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC PH.D. CHEMISTS
According to LOCAL SECTION AND YEARS SINCE BS
1986 Survey of ACS Members

		YEARS SINCE BS											
LOCAL SECTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	No Resp.	TOTAL	
Orange County	---	---	40,375	49,500	52,825	51,000	70,000	80,500	81,675	---	---	57,000	75,500 E-11a
	29,000	71,000	36,100	42,800	50,000	10,000	54,500	43,400	49,400	---	---	60,000	68,000 E-11b
	---	---	22,675	31,325	32,700	29,750	61,125	51,175	70,000	---	---	38,750	25,500 E-11c
	29,000	21,000	37,175	42,900	48,100	61,400	58,811	51,911	57,500	---	---	60,000	68,000 E-11d
	---	---	32,875	40,000	42,600	47,900	137,150	159,600	226,140	---	---	17,000	31st Div
	1	1	6	10	6	5	8	6	6	0	1	37	Count
San Jose	---	---	47,000	50,000	59,000	74,000	77,675	66,275	60,000	77,000	---	51,000	
	---	---	43,000	46,000	51,000	62,100	61,100	47,500	54,100	70,000	---	51,000	
	---	---	40,000	40,000	47,000	49,500	55,900	47,675	54,750	58,500	---	45,000	
	---	---	42,600	49,600	52,775	61,500	61,700	58,767	59,500	68,275	---	54,761	
	---	---	51,000	55,800	74,111	127,200	191,900	109,000	81,100	101,400	---	137,150	
	0	0	11	17	18	13	10	6	4	5	0	52	
Southern California	---	---	50,200	50,750	51,500	55,000	66,500	66,775	71,000	79,000	---	64,000	
	---	---	38,500	44,500	61,750	54,000	58,000	58,500	58,000	54,000	---	51,000	
	---	---	51,000	52,875	61,275	65,000	69,000	50,000	54,500	49,000	---	64,000	
	---	---	40,400	47,500	58,400	55,475	56,600	58,275	51,000	57,767	---	51,000	
	---	---	66,600	69,600	126,000	109,600	83,100	103,275	89,100	108,500	---	123,500	
	0	0	1	15	13	7	5	4	5	1	0	47	
California	---	---	59,000	64,000	56,700	60,000	62,500	61,675	70,000	82,750	---	67,400	
	---	---	51,000	44,000	41,000	50,000	60,000	56,500	75,750	61,400	---	52,000	
	---	---	51,000	51,000	53,000	58,000	51,675	61,700	57,000	51,750	---	44,400	
	---	---	51,500	49,600	52,600	52,600	58,675	71,400	67,800	70,000	---	56,275	
	---	---	72,200	79,200	105,900	144,600	107,900	231,700	116,100	217,400	---	166,575	
	0	1	5	19	25	7	8	12	11	4	0	93	
Chicago	---	---	43,750	41,000	59,750	76,000	64,700	64,000	47,000	59,000	---	49,000	
	---	---	40,000	42,000	49,000	55,100	56,500	55,000	48,000	54,000	---	49,000	
	---	---	35,700	38,900	47,075	46,000	48,075	60,000	50,000	34,722	---	41,500	
	---	---	38,000	42,600	50,100	59,175	57,250	54,700	60,000	50,175	---	52,450	
	---	---	52,600	60,000	102,000	153,100	149,000	131,900	199,100	232,700	---	150,100	
	0	0	21	31	28	30	28	17	15	7	0	273	
Cleveland	---	---	45,775	52,775	51,400	55,000	71,600	70,000	80,000	---	---	60,125	
	---	---	38,500	47,000	51,500	50,000	59,200	58,000	58,000	51,000	---	50,100	
	---	---	45,000	45,700	46,400	46,000	47,700	61,000	57,000	---	---	49,875	
	---	---	60,700	66,111	52,000	59,900	58,750	61,000	56,700	51,000	---	52,275	
	---	---	68,275	127,800	94,111	151,111	147,775	107,700	230,775	---	---	188,000	
	1	0	4	13	8	7	4	0	4	1	0	46	
Minnesota	---	---	45,600	49,475	56,500	65,000	66,700	---	65,000	---	---	59,750	
	---	---	41,000	46,000	50,000	56,700	59,000	77,700	50,000	---	---	49,500	
	---	---	43,300	49,475	43,150	49,200	47,300	---	46,100	---	---	43,075	
	---	---	42,500	44,000	51,750	57,111	57,000	77,700	50,111	---	---	52,475	
	---	---	130,100	65,100	129,775	127,500	146,000	222,700	143,500	---	---	133,275	
	0	0	5	10	13	12	9	2	1	0	0	54	
New York	---	---	41,000	49,700	53,000	58,000	65,700	64,700	71,200	79,100	---	60,500	
	---	---	40,000	45,100	52,000	58,000	56,700	54,600	54,000	56,000	---	47,700	
	---	---	38,000	40,200	41,000	41,000	41,700	43,475	40,000	42,750	---	40,275	
	---	---	40,100	44,111	50,825	49,750	55,111	54,511	58,275	59,575	---	50,967	
	---	---	40,000	50,400	118,111	151,100	145,100	15,300	185,111	181,400	---	127,500	
	0	0	15	18	15	21	16	12	11	6	0	118	
Northeastern	---	---	45,100	50,000	61,675	61,700	62,700	50,100	83,125	70,000	---	67,500	
	---	---	40,500	49,000	55,000	59,000	57,500	48,400	67,500	61,500	---	50,000	
	---	---	46,100	43,000	51,700	41,400	45,000	41,775	60,775	51,775	---	43,000	
	---	---	41,475	45,075	51,075	56,100	50,775	48,000	69,140	64,175	---	51,500	
	---	---	54,111	71,911	145,500	112,600	114,100	103,100	149,500	167,775	---	141,075	
	0	0	16	21	32	20	25	12	14	6	0	165	
North Jersey	---	---	46,100	50,700	51,600	49,700	74,000	82,000	79,000	74,100	---	55,000	
	---	---	38,000	49,500	48,000	59,000	62,500	70,000	70,000	50,000	---	50,000	
	---	---	46,000	41,000	41,000	47,000	46,175	57,000	58,000	51,000	---	47,000	
	---	---	40,100	40,175	49,400	58,011	61,400	65,175	58,000	51,100	---	66,000	
	---	---	42,775	51,700	145,500	158,100	155,611	202,111	138,100	162,500	---	164,400	
	0	0	30	45	19	37	26	19	21	13	1	231	
Philadelphia	---	---	43,000	50,000	53,000	45,700	63,700	61,000	78,400	81,100	---	68,000	
	---	---	40,000	41,000	50,000	57,400	52,000	54,000	46,000	41,500	---	49,500	
	---	---	38,500	40,000	43,700	50,100	46,000	48,000	51,850	41,475	---	47,000	
	---	---	41,211	44,975	50,711	55,185	51,927	58,300	67,800	62,700	---	51,500	
	---	---	46,275	78,075	124,600	156,700	87,400	144,100	145,111	227,211	---	136,411	
	0	0	23	35	31	29	35	15	13	6	0	156	
Pittsburgh	---	---	51,175	50,700	58,600	53,000	57,900	66,000	---	---	---	51,000	
	---	---	41,500	42,100	48,000	48,400	41,500	51,200	52,300	48,000	---	48,000	
	---	---	48,000	40,000	40,000	41,000	27,500	49,500	48,000	---	---	40,000	
	---	---	41,500	47,775	48,600	51,000	39,157	51,911	53,800	48,000	---	46,132	
	---	---	77,100	91,475	51,000	128,775	156,111	92,700	109,875	169,711	---	107,711	
	0	0	2	6	9	10	1	6	7	2	0	47	
Southeastern Texas	---	---	40,200	52,000	58,000	76,125	80,000	78,000	70,750	---	---	62,500	
	---	---	38,000	38,700	45,000	51,000	60,000	60,000	60,000	55,000	---	58,000	
	---	---	50,000	60,000	60,000	51,625	56,700	54,400	52,500	---	---	41,700	
	---	---	38,500	45,000	51,475	64,111	67,100	66,100	61,200	65,000	---	54,075	
	---	---	138,475	65,100	108,211	139,111	148,100	118,100	109,800	---	---	145,000	
	0	1	10	12	14	12	8	5	5	2	0	70	
St. Louis	---	---	41,500	49,000	51,000	48,000	60,000	60,000	61,000	---	---	58,000	
	---	---	37,000	40,000	45,000	54,000	58,000	64,000	56,000	---	---	57,500	
	---	---	38,500	38,775	39,000	40,000	46,200	47,000	49,175	---	---	40,000	
	---	---	37,000	41,675	44,000	58,700	54,711	68,000	54,000	---	---	70,000	
	---	---	38,200	70,911	84,611	117,075	76,175	21,000	18,100	---	---	14,600	
	0	0	8	10	13	12	1	5	6	0	1	58	
Washington, D.C.	---	---	41,000	47,000	53,700	57,000	55,150	61,100	81,000	70,000	---	58,000	
	---	---	28,500	32,700	41,900	47,100	50,000	60,000	63,100	68,000	---	50,000	
	---	---	40,000	40,000	40,000	42,000	42,000	47,000	52,000	51,000	---	43,000	
	---	---	28,500	31,000	41,675	48,600	50,100	51,142	57,207	57,000	---	68,000	
	---	---	47,011	49,100	91,722	111,511	88,175	103,211	116,700	118,600	---	125,000	
	0	1	9	15	25	16	33	21	18	11	1	169	
Other Local Section	---	---	41,000	48,000	51,000	61,400	60,000	68,175	71,000	72,500	---	60,000	
	---	---	38,500	41,000	46,200	54,000	55,000	54,000	60,000	59,700	---	46,700	
	---	---	38,500	39,000	41,000	43,500	47,200	77,075	50,000	47,175	---	41,000	
	---	---	38,511	41,675	47,575	54,500	54,621	57,575	52,000	51,000	---	49,000	
	---	---	41,111	43,775	112,900	129,475	149,111	161,100	158,000	170,500	---	145,200	
	1	0	229	217	218	248	472	152	117	50	6	1,313	
No Response	---	---	41,675	48,000	51,000	71,625	69,000	69,000	66,000	68,200	---	66,000	
	---	---	38,700	41,000	50,000	58,00							

Table 2.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40		
Bachelors	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200 - 75th %-ile
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600 - 50th %-ile
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600 - 25th %-ile
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628 - Mean
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447 - Std Dev
	46	216	335	216	157	109	85	110	149	49	3	1,475 - Count
Masters	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413
	0	25	167	207	182	121	84	86	83	36	2	993
Doctorate	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587
	3	2	274	441	426	392	284	217	195	80	8	2,322
No Response	---	---	---	---	---	---	---	---	---	---	50000	50000
	---	---	---	---	---	---	---	---	---	---	38500	38500
	---	---	---	---	---	---	---	---	---	---	30075	30075
	---	---	---	---	---	---	---	---	---	---	41538	41538
	---	---	---	---	---	---	---	---	---	---	15746	15746
	0	0	0	0	0	0	0	0	0	0	34	34
TOTAL	25500	28000	39500	46500	53000	61000	63950	66000	68000	70000	50000	54200
	22600	25000	34700	40550	45000	52000	53000	52300	53400	55000	38000	43700
	19850	22000	28150	35000	39000	42975	44000	44000	45800	44400	29000	35000
	23041	25286	34031	40819	46382	52689	54198	55476	57038	56458	40777	45658
	5059	5984	7559	9379	11711	14285	15649	17080	16746	17756	15190	15806
	49	243	776	864	765	622	453	413	427	165	47	4,824

Table 2.1.2

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY - MEN Only
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40		
Bachelors	25500	27200	36000	42000	46900	50000	52775	55000	56000	63525	---	46750 - 75th %ile
	22000	24050	30050	36000	40900	44000	45000	46000	48200	44850	32500	37000 - 50th %ile
	19750	21000	26350	29600	33450	37000	38250	37700	41300	35375	---	28000 - 25th %ile
	22376	24971	31045	36654	40726	43633	46507	47911	49896	48790	32500	38583 - Mean
	4358	6741	6754	9321	9859	11340	13040	13890	14555	17996	10607	13655 - Std Dev
	25	134	226	176	141	96	76	97	138	42	2	1,153 - Count
Masters	---	30000	36000	44000	50000	56575	57050	60500	60000	65850	---	51200
	---	27100	32000	36600	41000	45000	49700	50000	51500	52550	42850	42000
	---	23000	28100	32200	35700	36275	40700	42000	44900	43050	---	33800
	---	26700	32318	38048	42825	47054	49227	52268	53248	55717	42850	43857
	---	3095	5602	8644	10507	13678	14256	14554	13718	17212	11809	13754
	0	11	115	151	155	104	69	79	81	36	2	803
Doctorate	---	---	42600	49200	57000	65000	67625	75325	78000	72600	63750	62000
	36250	32750	39600	44000	49600	57000	58500	60000	64000	64000	54000	50600
	---	---	37400	40000	43700	49000	49875	50000	52150	51300	31500	43000
	36250	32750	40182	44988	50907	57959	59294	61755	64983	62758	49750	53754
	10253	1768	5667	7941	11305	13054	14446	16622	15548	15282	17366	14664
	2	2	221	389	387	371	274	210	190	79	4	2,129
No Response	---	---	---	---	---	---	---	---	---	---	50275	50275
	---	---	---	---	---	---	---	---	---	---	40000	40000
	---	---	---	---	---	---	---	---	---	---	30075	30075
	---	---	---	---	---	---	---	---	---	---	43477	43477
	---	---	---	---	---	---	---	---	---	---	16431	16431
	0	0	0	0	0	0	0	0	0	0	26	26
TOTAL	26600	27900	40000	47350	53200	61700	64000	67000	68000	70000	51125	56000
	22500	24600	36000	41000	46000	53000	54000	53800	54000	56000	40000	45000
	20000	22000	29500	36000	39800	43700	45000	45000	46000	45000	30075	37000
	23404	25206	34898	41476	46971	53565	55317	56335	57568	57407	43532	47501
	5940	6563	7457	9278	11746	14240	15182	16682	16408	17421	15864	15730
	27	147	562	716	683	571	419	386	409	157	34	4,111

Table 2.1.3

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY - WOMEN Only
according to HIGHEST DEGREE and YEARS SINCE BS
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Bachelors	24550	27000	32500	39075	39000	48750	37350	50300	42000	49250	---	32750	- 75th %-ile
	23200	25000	28000	31200	31100	43000	29000	36200	36000	32550	19800	27500	- 50th %-ile
	19600	22000	25000	25700	28000	34100	25500	28050	29100	21700	---	23950	- 25th %-ile
	22648	24830	28267	33510	33763	43492	31567	42162	35164	35083	19800	29558	- Mean
	3885	4816	5779	10575	8633	13252	7448	22648	8536	15454	---	9854	- Std Dev
	21	82	109	40	16	13	9	13	11	6	1	321	- Count
Masters	---	32125	34675	39875	43000	46000	44125	50000	---	---	---	40000	
	---	27600	30000	34200	40000	38000	37800	33000	43300	---	---	33500	
	---	25500	26100	29700	33000	34000	28500	29300	---	---	---	28825	
	---	28786	31025	34859	38259	38471	36479	37943	43300	---	---	34441	
	---	4885	6406	7051	9407	8945	10273	11378	---	---	---	8281	
	0	14	52	56	27	17	14	7	1	0	0	188	
Doctorate	---	---	42000	48000	51875	49925	60975	66800	87900	---	42000	48500	
	21500	---	39300	43650	46100	46000	49250	49900	80000	40200	36800	42300	
	---	---	37900	40000	41725	39250	41250	38000	39500	---	26900	38775	
	21500	---	39630	43815	47137	45285	51710	50386	66960	40200	35233	44462	
	---	---	4824	6815	8339	9147	17863	14126	25886	---	7671	10352	
	1	0	53	52	38	20	10	7	5	1	3	190	
No Response	---	---	---	---	---	---	---	---	---	---	38925	38925	
	---	---	---	---	---	---	---	---	---	---	34000	34000	
	---	---	---	---	---	---	---	---	---	---	25750	25750	
	---	---	---	---	---	---	---	---	---	---	35238	35238	
	---	---	---	---	---	---	---	---	---	---	12051	12051	
	0	0	0	0	0	0	0	0	0	0	8	8	
TOTAL	24325	28075	37550	44000	48600	48000	47250	54000	46200	47000	39125	41300	
	23100	25500	31100	37000	42000	42500	38500	36600	40000	40200	34000	33500	
	19650	22925	26000	31000	34400	35000	29000	31000	31700	22200	24725	26400	
	22595	25407	31751	37641	41536	42502	39755	43200	44994	35814	33950	34926	
	3799	5001	7364	9244	10271	10519	14653	18290	20748	14239	11089	11399	
	22	96	214	148	81	50	33	27	17	7	12	707	

Table 2.2.i

SALARIES OF FULL-TIME EMPLOYED U.S. CHEMISTS IN PRIVATE INDUSTRY
according to WORK SPECIALTY AND YEARS SINCE BS
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-59	
Biochemistry	25875	---	---	42575	---	---	---	---	---	---	---	42600
	22500	24700	23400	31250	28000	31900	41900	39500	45000	60000	---	28000
	22125	---	---	22950	---	---	---	---	---	---	---	22600
	23500	24700	23400	32925	28000	31900	41900	39500	45000	60000	---	33116
	2345	---	4808	11129	0	---	---	12071	---	---	---	13190
	4	1	2	4	2	1	1	2	1	1	0	19
Biotechnology	---	26650	31500	44750	---	---	---	---	---	---	---	44000
	10000	25000	27600	39000	41500	---	60000	60000	87100	---	13800	28000
	---	23500	24900	28750	---	---	---	---	---	---	---	24900
	10000	25000	27500	37500	41500	---	60000	60000	87100	---	13800	34474
	---	1876	6136	8581	3536	---	---	---	---	---	---	16625
	1	5	7	4	2	0	1	1	1	0	1	23
General chemistry	---	24000	34850	52000	52000	---	54500	52750	48500	---	---	48000
	25000	23400	30900	39800	39650	49500	52100	42800	44000	60000	---	34300
	---	19000	25400	31000	30200	---	32000	30975	40300	---	---	26000
	25000	34469	31516	40716	40938	49500	46200	42017	45400	60000	---	37067
	---	5607	9608	10844	17910	---	12356	14199	9538	---	---	12648
	1	13	13	11	8	1	3	6	10	1	0	67
Analytical chemistry	23425	28500	31350	40000	44000	49000	45000	51000	55500	47350	---	39400
	20650	29000	29000	33000	36000	40000	39000	40000	44000	40000	---	32500
	19500	21650	25000	27300	30500	36700	34900	31600	36500	28300	---	25350
	23441	25742	29271	34177	37185	41716	39110	42461	46155	39100	---	33619
	4101	7177	4159	8494	6510	4435	9257	16598	13800	17186	10607	13405
	16	76	141	74	53	37	27	23	31	13	2	493
Inorganic chemistry	---	---	36000	38000	---	66000	47500	70575	55800	---	---	50875
	20800	24900	31800	31000	36000	52000	41400	59500	42700	47000	---	36550
	---	---	26000	25000	---	38000	33400	30750	38750	---	---	30350
	20800	24900	30809	31331	36000	52370	40640	56350	43667	47000	---	40526
	---	2607	6188	6508	---	17280	7308	24341	15123	---	---	16146
	1	2	21	3	1	5	5	6	9	1	0	44
Organic chemistry	28625	25900	30725	45375	45250	50000	48750	51825	56850	61750	---	45450
	22750	24950	29000	35500	41500	45600	42500	45000	48000	53000	---	36000
	17250	22350	27000	28950	36775	42100	39125	40000	43800	23900	---	29525
	23567	24708	29167	34406	40861	47700	42556	46506	48786	53550	---	36281
	5561	3890	6004	9483	11598	10763	7554	8171	14678	30786	---	13678
	6	24	26	20	18	13	16	16	21	4	0	164
Polymer chemistry	27500	29150	36925	43800	45925	52650	61000	57450	59250	66125	---	48000
	24100	24000	32000	36000	41000	47000	47400	49500	50000	51000	---	36550
	23000	23600	28975	32500	37375	38250	29000	42500	38450	44250	---	28025
	24936	25047	32194	38451	39546	49420	47141	51621	50455	52411	---	36146
	3659	4717	6450	9180	9361	8943	19634	12153	17694	13844	---	14249
	11	34	54	30	26	20	7	24	38	8	0	252
Pharmaceutical chemistry	---	26500	32400	31300	49000	46750	46000	54250	50750	---	---	40175
	20750	24500	27500	29000	48000	45300	43000	39800	47000	54600	---	29750
	---	23350	25000	27250	40000	23400	29000	28750	42250	---	---	25000
	20750	25521	29786	30500	43500	39350	39333	41480	46467	54600	---	33199
	3889	4668	6172	4550	10735	12327	9074	13570	4675	---	---	10915
	2	13	21	8	7	4	1	5	6	1	0	70
Medicinal/clinical chemistry	---	29400	---	57500	51250	---	---	---	---	---	---	52000
	---	23500	26200	27000	49000	44000	60000	36200	80000	---	---	36200
	---	22600	---	25500	36400	---	---	---	---	---	---	41750
	---	25167	26200	38400	45500	46000	60000	36200	80000	---	---	16217
	0	3	1	5	4	1	2	2	1	0	0	19
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	57000
	---	---	---	35250	---	---	---	57000	---	---	---	43500
	---	---	---	35250	---	---	---	57000	---	---	---	27000
	---	---	---	11667	---	---	---	---	---	---	---	42500
	0	0	0	2	0	0	0	1	0	0	0	3
Environmental chemistry	---	24925	35000	40750	56250	47200	59800	51000	62000	65175	---	41000
	18900	22500	33000	38200	41800	42000	45500	47500	49000	39150	---	35000
	---	17125	27150	31450	36500	36500	39350	39350	34800	22200	---	24925
	18900	21482	32043	37286	45711	41171	47071	49131	47411	43600	---	35308
	141	4660	6143	5937	12029	11572	13002	14673	13906	22086	---	13446
	2	22	21	16	9	7	8	6	3	6	0	100
Agricultural/food chemistry	---	28000	36575	44200	46675	54000	76000	---	51650	82500	---	44900
	---	27000	29850	35000	35400	42000	45000	55000	45500	58950	---	39000
	---	19500	24450	28000	31125	34800	42000	---	40000	42725	---	26850
	---	24831	30133	36114	37733	43940	54333	56000	46540	60725	---	41534
	---	4546	6168	10125	8186	10043	16824	21213	8420	22659	---	14967
	0	3	6	7	6	5	3	2	5	4	0	41
Physical chemistry	---	30000	37975	39000	49950	---	64000	65000	80000	---	---	52000
	24900	26500	31900	38000	44100	57000	57000	39000	60700	56000	---	38000
	---	22100	30250	37800	32000	---	45000	32000	53000	---	---	30800
	24000	26814	33238	38500	41840	57000	55133	46600	63400	56000	---	41033
	---	4916	4398	681	9500	4241	9609	18461	15254	---	---	14415
	1	7	8	4	5	2	3	5	3	1	0	39
Other chemistry	---	28025	27000	41350	48000	45250	---	---	50500	50500	---	42250
	22900	22100	26000	36000	41800	39500	---	44000	43500	37100	---	36550
	---	18150	23400	26350	31500	31500	---	42000	35000	---	---	25615
	22900	23150	24586	35109	39529	30400	---	44000	4914	41033	---	34698
	---	6664	3924	9666	8852	18599	---	12465	9370	1834	---	12009
	1	6	7	9	7	5	0	2	7	6	0	50
Non-chemistry	---	27500	37800	44500	49500	59000	73050	76000	56200	61600	---	50000
	---	26400	33000	36000	41800	47000	52050	44400	52800	53000	---	39000
	---	22500	28000	30000	38500	36400	42250	32000	49000	25000	---	30000
	---	25989	33206	37795	42622	47588	56750	52178	52109	47250	---	41621
	---	6631	6227	9557	6832	11797	24416	22061	12596	15943	---	15228
	0	9	17	19	9	6	6	9	11	3	0	91
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44300
	25000	24600	30000	39000	39000	43900	43000	45300	48000	44700	25000	34600
	11500	21850	25900	28700	32050	37000	35000	36425	40000	35000	19000	26600
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628
	4108	6071	6574	9618	9943	11516	13380	15161	14496	17960	10489	13447
	46	216	335	215	157	109	85	110	149	49	3	1,475

Table 2.2.2

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	No Resp	
Mgt-RAO	---	---	45000	46500	52075	54000	56125	72000	64000	74375	---	54500 - 15th S-ile
	23250	27900	37250	38500	46450	50000	41500	52000	50700	51500	---	47000 - 50th S-ile
	---	---	34750	32750	39250	45000	34700	48000	45000	33425	---	37500 - 25th S-ile
	23250	27900	38944	41510	45106	49167	44510	60353	56643	51738	---	47946 - Mean
	6010	8627	7359	11640	9753	7731	12043	15658	16246	24426	---	15225 - Std Dev
	2	2	18	20	16	15	10	17	23	8	0	131 - Count
Basic research	28500	26600	32300	36125	44025	47200	52000	---	48000	---	---	36025
	22700	24100	28300	27800	41200	44000	48400	36500	43000	60000	---	28000
	20425	22150	26200	25950	35300	38200	43450	---	21900	---	---	24925
	21438	24425	28896	30811	39670	42960	47950	36500	37633	60000	---	30640
	5012	3749	3871	6452	5995	4547	4734	---	13853	---	---	8687
	8	28	28	18	10	5	4	1	3	1	0	106
Applied research	24000	26875	33425	39000	45200	49000	50175	54900	55000	66475	---	42000
	22550	24600	29650	34200	37250	41000	43000	46000	48000	49650	29900	32000
	19925	22575	25850	27000	31150	36750	34450	36500	44675	35375	---	25600
	22250	25401	29664	33978	38554	41752	42500	45266	48716	49110	29900	34742
	3549	6833	5902	7649	8567	9152	10040	9823	10951	17144	14284	11523
	22	84	124	51	54	29	26	35	44	10	2	461
General Mgt	---	33375	36050	50500	47350	60000	80000	61000	61000	75000	---	50000
	20700	27150	32500	45000	41900	45600	57900	52000	45000	50000	---	40500
	---	25000	27700	38000	38000	36375	45000	36200	36000	35000	---	33200
	20700	28620	31786	43695	43172	46450	62571	53636	49976	51729	---	43695
	8344	5816	5078	7703	10120	17824	20590	19599	20365	19985	---	18627
	2	10	22	21	18	14	7	11	21	7	0	133
Marketing	27500	30425	40000	47050	51750	52000	47400	59325	55000	59250	---	50000
	27500	24500	29200	40400	47950	50000	42000	45000	50850	43000	---	42000
	23000	22000	25000	31675	42000	44000	32000	35400	42000	37000	---	31000
	26000	26721	32400	40142	48911	49733	40145	46486	50482	47625	---	41727
	2598	5598	8536	10359	9666	10773	8661	15219	13986	12070	---	13446
	3	14	28	24	16	15	11	14	28	8	0	159
Prod & QC	24625	27925	32500	39000	41300	45750	44750	41500	50000	43500	---	37325
	20250	23950	28000	32500	32500	37500	39500	36000	40000	39800	25000	30000
	18375	19875	24000	27375	26000	34900	34625	30500	30100	28750	---	25000
	21200	24148	28435	32918	34600	39336	40583	39129	40367	38860	25000	31760
	4353	5817	6084	7979	9476	10266	9954	15042	9980	8000	---	9927
	8	46	79	50	31	22	12	17	15	5	1	286
Forensic	---	24825	36350	45000	44000	50000	48000	48000	48500	29100	---	41000
	22500	23000	27500	32000	30550	43000	42000	40000	43000	22200	---	29000
	---	16975	21025	28000	27875	26400	25000	25500	36750	22200	---	22700
	22500	21417	28879	33455	34933	39800	38333	37400	42700	24500	---	31267
	---	4005	8602	8509	10273	12121	11930	12239	6399	3984	---	10290
	1	12	14	11	6	3	3	5	5	3	0	63
Writing	---	22450	37000	---	---	---	---	---	---	---	---	40000
	---	18000	32100	25600	---	43000	37850	---	43000	---	---	25600
	---	15900	25000	---	---	---	---	---	---	---	---	18250
	---	18940	31367	25600	---	43000	37850	---	43000	---	---	28931
	---	4383	6034	---	---	22981	---	---	---	---	---	12113
	0	5	1	1	0	1	2	0	1	0	0	13
Chemistry information	---	---	32500	---	---	---	---	52500	45600	---	---	51000
	---	28000	31900	---	49000	---	40000	50000	31850	52000	---	36600
	---	---	28000	---	---	---	---	36600	29100	---	---	30400
	---	28000	30800	---	49000	---	40000	46367	37717	52000	---	39753
	---	---	2443	---	8485	---	---	8550	14038	---	---	11378
	0	1	3	0	2	0	1	3	6	1	0	17
Computer	---	27575	---	37200	---	---	---	---	---	---	---	36300
	---	25500	26000	36000	41800	17000	---	---	---	---	---	29050
	---	17500	---	30000	---	---	---	---	---	---	---	25750
	---	23525	26000	34743	41800	17000	---	---	---	---	---	30150
	---	5828	---	5721	---	---	---	---	---	---	---	8537
	0	4	1	7	1	1	0	0	0	0	0	14
Consulting	---	27500	38000	72000	---	---	---	---	---	---	---	47250
	---	21000	32400	43000	33000	---	---	---	59500	29000	---	34750
	---	20000	31000	36875	---	---	---	---	---	---	---	25875
	---	22833	33800	50625	33000	---	---	---	59500	29000	---	38886
	---	4072	3704	29236	---	---	---	---	17678	---	---	18070
	0	3	3	4	1	0	0	0	2	1	0	14
Other	---	35950	35000	37800	---	46750	66200	60000	---	72450	---	44375
	---	26090	26750	35700	33750	36000	58000	44000	43000	45000	---	35700
	---	22625	24825	29925	---	29750	34600	40000	---	41950	---	28100
	---	28367	28750	34650	33750	37500	53267	45229	43000	54760	---	38932
	---	7611	6207	5579	3182	9183	16487	15100	---	18152	---	14683
	0	6	14	8	2	4	9	7	1	5	0	56
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	29200	---	30000	---	---	---	---	---	---	---	27600
	---	---	---	30000	---	---	---	---	---	---	---	---
	---	25200	---	30000	---	---	---	---	---	---	---	27600
	---	---	---	---	---	---	---	---	---	---	---	3394
	0	1	0	1	0	0	0	0	0	0	0	2
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600
	22500	24918	30141	36072	40017	43617	44925	47232	49809	47178	28267	36628
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447
	46	216	335	216	157	109	85	110	140	49	3	1,475

Table 2.2.3

SALARIES of FULL-TIME EMPLOYED U.S. CHEMISTS IN PRIVATE INDUSTRY
according to NUMBER OF PROFESSIONAL AND TECHNICAL SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

YEARS SINCE BS													
PROF. & TECH. SUBORDINATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	No Resp	TOTAL	
0	24000 22500 19425 22062 4045 34	26000 24000 21000 23524 4262 121	32575 28000 24775 28825 6169 164	38000 31200 27000 32713 7579 92	40950 36000 29500 35016 6649 37	49500 39500 36000 42003 12779 32	49975 40500 30475 41047 11610 32	52075 41900 34700 43464 12711 36	51675 44000 33250 42895 11425 44	57000 40000 30000 43647 14269 15	--- 25000 --- 25000 --- 1	38000 29500 24300 31938 10819 608	- 75th %ile - 50th %ile - 25th %ile - Mean - Std Dev - Count
1-2	26550 24000 22450 24400 2712 5	29100 25100 22000 26298 8469 56	33600 30000 26500 30229 5575 91	36375 32000 25250 32563 7200 32	44650 38000 31750 39249 10214 45	48000 41450 35050 39529 11352 28	52950 43000 34650 44343 13241 21	41500 36250 31000 37150 9552 20	56500 49500 41850 51236 13460 42	61000 40000 35250 48033 17170 9	--- 29900 --- 29900 --- 2	42000 34000 27000 35837 12475 351	
3-7	28000 26000 19750 24300 4251 5	28500 26000 23000 26226 5195 27	37000 32300 26200 32295 7964 63	43500 39000 32000 39351 9899 13	49000 42000 33130 41530 10814 43	52000 46000 37000 46194 9779 35	53250 44150 40000 48400 14744 18	55875 47000 36950 47028 11328 32	53000 44300 36750 44075 11811 32	57300 44060 26050 42969 16052 13	--- --- --- --- --- 0	48000 39000 30000 39552 12214 327	
8-12	--- 14800 --- 14800 --- 1	39275 30050 26375 32083 6317 6	38300 35100 29000 34938 7091 13	53450 45000 37100 46508 11389 13	49225 45950 39500 45040 8130 20	59000 48500 41500 48278 10952 9	--- 48000 --- 48000 --- 1	56000 52000 49000 56173 12798 11	72000 60000 45000 59053 18293 15	60000 45000 33000 46200 18089 5	--- --- --- --- --- 0	52625 45000 37800 46639 14540 94	
13-17	--- --- --- --- --- 0	34300 28550 22725 28525 6147 4	32800 32000 32000 32267 462 3	46900 35000 29000 38414 9469 7	59625 42500 37250 45917 11386 6	--- 48500 --- 48500 4950 2	61000 47400 32000 46800 14509 3	82500 72000 45500 65600 19604 5	50000 49000 42000 47000 4761 4	--- 73000 --- 73000 --- 1	--- --- --- --- --- 0	52000 44000 32000 45191 15517 35	
18-22	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- 33500 --- 1	48125 33500 34000 32600 10952 6	--- 26000 --- 59000 --- 1	--- 59000 35000 59000 1414 2	57000 43000 --- 45000 11136 3	--- 64000 --- 64000 --- 1	97778 60000 44000 67259 27614 3	--- 70800 --- 70800 10182 2	--- --- --- --- --- 0	60500 44000 36000 50909 18203 19	
23-32	--- --- --- --- --- 0	--- 24200 --- 24200 5940 2	--- --- --- --- --- 0	51400 36500 29500 39660 11816 5	51150 50000 49000 50050 1215 4	--- 37000 --- 37000 --- 1	58150 45000 37000 47060 12252 5	--- 48000 --- 48000 --- 1	64000 56000 48400 58443 13358 7	--- 67500 --- 67500 24749 2	--- --- --- --- --- 0	55000 49000 37000 48567 15216 27	
33-47	--- 26600 --- 26600 --- 1	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- 32500 --- 32500 --- 1	--- --- --- --- --- 0	--- 80000 --- 80000 --- 1	--- --- --- --- --- 0	--- 50700 --- 50700 --- 1	--- 75000 --- 75000 --- 1	--- --- --- --- --- 0	77500 50700 29550 52960 24163 5	
48-67	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- 49500 --- 49500 3536 2	--- --- --- --- --- 0	--- --- --- --- --- 0	--- 64000 --- 64000 --- 1	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	64000 52000 47000 54333 8737 3	
68-99	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- 72500 --- 72500 10607 2	87300 --- 87300 --- --- 1	--- --- --- --- --- 0	--- --- --- --- --- 0	87300 80000 65000 77433 11369 3	
**100	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- --- --- --- --- 0	--- 90000 --- 90000 8485 2	--- --- --- --- --- 0	--- 10500 --- 10500 --- 1	--- --- --- --- --- 0	96000 84000 10500 63500 46290 3	
TOTAL	25000 22500 19650 22500 4106 46	27000 24600 21850 24918 6071 216	34900 30000 25900 30141 6574 335	41000 35000 28700 36072 9618 216	46000 39000 32050 40017 9943 157	50000 43900 37000 43617 11516 109	52000 43000 35000 44925 13360 85	55000 45300 36425 47232 15161 110	55000 48000 40000 48809 14696 149	60450 44700 35000 47178 17960 49	40000 25000 19800 28267 10489 3	44200 34600 26600 36628 13447 1,475	

Table 2.2.4

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	No Resp	
0	21875 22500 20075 22346 1931 28	26000 24000 21000 23554 1354 112	32675 28300 24775 28963 6196 156	38500 32000 27000 33076 7438 85	40800 34750 29000 34319 6744 32	50000 40000 36000 42132 12969 31	46975 39750 29150 39077 10272 26	52025 41900 35700 42785 11178 34	51625 44000 33750 42379 10603 38	60875 39100 28700 42020 16441 10	---	37450 - 75th %-ile 29200 - 50th %-ile 24450 - 25th %-ile 31689 - Mean 10318 - Std Dev 553 - Count
1-2	27500 24000 22000 26143 3229 7	27500 23900 20850 24289 4742 53	35000 30000 26500 30292 5717 79	36750 32000 25700 32728 6623 25	44825 38250 32425 39991 9685 44	48000 42900 35200 39744 11521 27	60400 48000 34700 48516 14502 19	47500 37000 31000 41800 14191 15	57500 50000 43125 51693 13313 40	53750 39900 35375 43980 10626 10	---	43000 34600 26850 36188 12901 321
3-7	28250 26750 20600 25200 4389 4	30000 25500 21850 27909 9821 33	36000 30000 25900 31134 7697 62	42000 36000 31000 37839 10512 59	47800 39900 32425 39545 9664 40	51250 46600 38500 45221 6949 30	50500 42000 36500 44010 8383 20	51850 45850 35250 45157 12161 28	53000 46000 39000 46220 11221 35	58950 47000 26050 46154 19151 13	---	47000 37000 29750 38535 11949 324
8-12	22500 19000 14700 18680 4286 5	33000 27700 25975 29417 5050 6	38300 35000 29500 34606 6630 17	50550 42000 33500 41886 12237 14	50225 45000 39000 44600 8571 18	56750 46750 36450 46388 11500 8	86250 44700 40350 57100 28150 4	56750 51500 46750 51450 12391 12	62000 48000 41200 49754 15971 13	44000 38500 27750 36750 8655 4	---	50000 41300 31650 42159 14186 191
13-17	---	37500 29200 24450 30620 7435 0	40000 32000 31000 33514 10038 5	46000 34900 28250 35875 9478 8	58375 42500 33500 44375 12780 8	52000 45000 34700 43900 8702 3	57600 41200 32750 43850 13235 4	45500 42000 36200 41400 4629 6	74900 50000 41000 56000 23917 5	73000 54600 45000 57533 14229 3	---	46700 40000 32000 41588 13915 49
18-22	---	---	39500 11000 ---	44000 37000 34125 31000 7071 0	---	---	51500 84000 ---	---	---	---	---	58000 40000 36000 46126 16113 27
23-32	---	28400 27000 20000 25133 4500 0	---	47125 34500 29300 37160 9691 10	51050 49500 44125 46617 8438 6	38000 37000 36000 37000 1000 3	61300 48000 45000 51433 8675 3	---	67000 50000 46000 48000 23413 11	82500 67500 52500 54898 15546 11	---	51200 47800 34000 45962 17720 43
33-47	---	---	28000 19900 ---	54875 48450 45850 26300 1519 1	61000 41000 35750 44000 16539 5	80000 59000 44000 61000 18083 3	---	---	---	---	---	56500 45000 32500 45352 15104 23
48-61	---	---	---	52000 47000 41000 46667 5508 3	---	---	---	---	---	---	---	58000 41000 29500 45500 21354 9
62-99	---	---	33800 27000 24900 28567 4652 0	---	48000 ---	---	---	---	---	---	---	67500 34000 32100 52660 20936 10
100-199	---	---	---	---	---	---	---	---	---	---	---	80000 62000 46000 60200 23697 15
TOTAL	25000 22500 19650 22500 4106 46	27000 24600 21850 24918 6071 216	34900 30000 25900 30141 6574 335	41000 35000 32050 36072 9618 216	46000 39000 32050 40017 9943 157	50000 43900 37000 43617 11516 109	52000 43000 35000 44925 13160 85	55000 45300 36425 47232 15161 110	55000 48000 40000 48809 14696 149	60450 44700 35000 47178 17960 49	40000 25000 19800 28267 10489 3	44200 34600 26600 36628 13447 1,475

Table 2.2.5

SALARIES OF FULL-TIME EMPLOYED U.S. CHEMISTS IN PRIVATE INDUSTRY
According to TYPE OF INDUSTRY AND YEARS SINCE BS
1986 Survey of ACS Members

TYPE OF INDUSTRY	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49			
Agricultural chemicals	29000 26500 24900 27147 2754	25600 25000 22900 24000 2001	36750 31000 27400 31900 3677	42650 36900 31400 37000 3750	48000 43000 36200 41700 4607	51800 50000 39500 46100 5131	60500 44300 40000 49240 37527	---	50000 44000 32000 43218 31515	58425 41450 39625 43500 44974	---	45000 35000 29000 34404 12759	45000 35000 29000 34404 12759
	3	7	17	13	10	5	5	2	11	4	0	77	Count
Coatings	28875 27550 20500 4296	27450 24000 22000 24695	35425 31000 27500 32191	39700 32000 27400 35707	43350 36900 28500 35631	45875 39000 33000 39740	54000 45200 38750 47231	56000 47000 44500 49861	51925 45500 34750 43375	45000 35000 29000 34613	---	44100 35000 27000 36004	44100 35000 27000 36004
	6	21	22	15	6	10	6	13	16	3	0	118	
Food	19975 17970 16700 19125	27400 24000 22500 24200	32500 26000 23500 27907	36100 32000 28500 31149	43000 37000 34000 44529	---	45000 44000 40000 48150	70000 55000 48000 43900	---	55000 45000 38000 54540	---	49000 39000 34000 33997	49000 39000 34000 33997
	4	11	15	13	7	2	3	3	2	3	0	63	
Retail	75000 70000 70700 5126	28000 25000 23500 3107	26750 23500 21800 3212	37475 31000 27500 4101	49000 40000 36000 4101	---	50000 40000 36000 4101	45000 35000 30000 46019	53000 42750 38000 40750	---	44500 34000 29000 12297	44500 34000 29000 12297	
	0	4	10	1	1	4	3	3	0	1	0	27	
Paper	---	38525 20700 12775 7135	33000 31000 26750 29780	---	---	43750 40000 36750 40000	52000 42000 31000 40500	50400 40000 30000 40611	---	---	---	47000 38000 30000 36526	47000 38000 30000 36526
	0	4	10	1	1	4	3	3	0	1	0	27	
Petroleum	---	31950 21000 21000 5013	36000 25000 20000 7447	40000 32000 25000 6595	46000 35000 25000 8663	50000 41000 35000 6677	64000 43000 39000 15765	57000 52100 40000 8766	95000 41750 44000 26329	70000 41750 39000 26480	---	51750 41000 39000 17415	51750 41000 39000 17415
	1	9	15	9	8	4	7	5	7	5	1	72	
Pharmaceuticals	21500 23050 18125 21950	27000 24000 22500 25818	32500 29000 25000 28932	38500 31000 27625 34720	46000 37000 30750 39981	50000 40000 34000 41247	51000 43000 35000 43809	54750 47500 35000 45118	52750 43500 42750 46400	54850 45000 50750 54400	---	40000 31000 25000 44504	40000 31000 25000 44504
	8	45	66	40	26	19	16	17	14	4	0	255	
Rubber	---	24300 16100 16000 19000	---	21500 25500 24500 25500	26750 43000 37950 42133	34000 43000 30900 49800	40000 52000 21100 31033	42775 55000 43250 52863	53000 45000 41000 47538	---	---	53750 43000 31000 42289	53750 43000 31000 42289
	0	3	2	5	6	4	3	6	13	2	0	46	
Soaps	---	28750 20000 19100 20000	30700 26000 25000 24833	36500 43000 36750 39371	40575 43000 35000 44450	54000 48000 49625 32275	---	---	---	---	---	48000 36750 26125 37034	48000 36750 26125 37034
	1	9	7	8	4	4	2	0	6	3	0	44	
Biochemical products	28125 22750 16750 22375	25150 23850 22625 23850	29550 24500 20000 25411	45125 42550 32250 39433	49000 43400 30750 41225	---	---	---	---	---	---	42775 39000 23775 32933	42775 39000 23775 32933
	4	8	9	6	8	1	0	3	1	0	2	40	
Electronics	28425 22150 19700 22825	34000 28200 23750 28400	38000 32500 28600 33348	41000 33000 29575 34781	45000 36000 30000 36857	52000 48000 46000 48800	61175 54000 35000 50633	68750 56000 32600 47740	49100 37150 31475 39531	---	---	43400 34100 26400 36113	43400 34100 26400 36113
	4	10	23	18	7	5	6	5	6	0	0	84	
Other chemicals	---	26000 16000 18000 3657	30000 21000 26500 3786	46000 38000 32000 7240	42750 38000 32775 9102	52750 44000 38500 12120	57000 44000 35000 13695	54000 44000 37000 10332	60000 50000 42100 16223	60750 46000 24650 16496	---	46000 37000 29000 14054	46000 37000 29000 14054
	2	22	39	23	24	22	11	23	21	5	0	192	
Other products	25750 21500 22600 23763	31225 26700 24250 26754	36000 31500 28000 31008	42625 34000 27375 36424	45000 38500 29650 38041	52750 42000 37750 45171	60000 39000 31200 39580	54175 49350 36775 47370	54050 51550 34175 52003	46750 41000 38600 43000	---	45000 36000 28100 38049	45000 36000 28100 38049
	8	24	57	34	34	21	15	20	30	12	0	255	
Manufg	---	26175 23050 21050 5020	34500 22800 20000 5852	42250 35800 32000 6744	51200 40500 32750 8986	49250 40150 37500 11358	76750 54100 43750 15403	55500 40000 38600 23150	63000 50000 41450 12915	56475 27200 20550 23240	---	46750 28500 22750 13074	46750 28500 22750 13074
	2	40	64	37	11	8	5	5	6	4	1	141	
TOTAL	25000 27550 19650 27500 4186	27000 24600 21850 24918 3071	34900 30000 25900 30141 3074	41000 35000 28700 36072 3618	46000 39000 32050 40017 4943	50000 43000 37000 43617 11516	52000 43000 35000 44825 13360	55000 45000 36425 47232 15161	55000 48000 40000 48809 14696	60450 44700 35000 47118 17960	40000 25000 19800 28267 10489	44200 34000 26000 36628 13447	44200 34000 26000 36628 13447
	46	216	335	216	137	109	85	110	149	49	3	1,475	

Table 2.3.1

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
According to WORK SPECIALTY and YEARS SINCE BS
1980 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	No. Res.	
Biochemistry	---	---	10850	16750	14800	69500	---	---	---	---	---	41650
	---	---	27000	29000	34600	33000	63000	46300	---	61400	---	34700
	---	---	25900	33900	33000	36000	---	---	---	---	---	31725
	---	---	27000	28520	35489	33600	56167	46300	43200	---	61400	---
	---	---	2727	3472	1019	17705	13576	---	---	7637	---	12546
0	1	9	9	1	3	7	1	0	2	0	26	
Biotechnology	---	---	37300	38500	63000	---	---	---	---	---	---	44500
	---	---	30000	36500	56000	46000	40000	---	52900	---	---	36800
	---	---	28300	33500	50000	---	---	---	---	---	---	31500
	---	---	32260	35375	56633	46000	40000	---	52800	---	---	40456
	---	---	5060	4786	6504	15556	---	---	---	---	---	13802
0	0	5	12	3	7	1	0	1	0	0	24	
General chemistry	---	---	39333	39150	50500	57275	---	72500	54000	---	---	50900
	---	---	31950	36000	38750	48000	47667	42750	47500	66000	---	40400
	---	---	27075	24400	30750	37750	---	31250	41500	---	---	31000
	---	---	32361	34620	39833	47675	47667	50750	49720	56000	---	43244
	---	---	6451	5675	10633	10134	---	25674	10941	22627	---	15704
0	0	8	5	4	4	1	6	5	2	0	35	
Analytical chemistry	---	---	27700	33750	41500	44800	50000	52000	57500	60000	---	45900
	---	---	26400	29600	34000	40000	42000	40400	44800	51800	43200	34000
	---	---	22900	26500	29575	32650	35000	36000	40600	41900	31950	39000
	---	---	25456	31019	35474	40077	42563	41837	49114	51057	44191	34500
	---	---	2839	3534	4634	9271	11321	12880	14311	12373	18749	---
0	0	40	50	60	35	27	21	21	9	1	261	
Inorganic chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	3	5	7	0	3	5	2	0	20
Organic chemistry	---	---	36125	37050	38475	48000	46700	48000	62500	70150	50900	46375
	---	---	28700	30800	34800	40800	35000	46000	55000	55500	35000	38800
	---	---	23150	28200	31750	36000	33000	41200	43750	51250	52000	37000
	---	---	30325	30300	35380	42732	34867	44440	54640	59900	59014	42145
	---	---	7756	2829	6564	6762	8933	12076	16138	14877	15748	13449
0	4	21	30	19	15	11	13	12	7	0	132	
Polymer chemistry	---	---	38825	45100	50000	67350	58000	58500	70750	82000	---	52225
	---	---	32300	35000	39900	43500	50700	52000	61000	61000	---	42650
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	32200	34705	38806	43800	52240	48912	50524	61000	60000	---
	---	---	4667	6029	8637	8692	17430	10339	8906	16827	5106	---
0	2	34	23	30	20	17	17	10	1	0	156	
Pharmaceutical chemistry	---	---	34950	43525	46600	61400	---	56700	---	---	---	44600
	---	---	27500	32500	37000	31600	42900	25000	45400	50700	41000	37600
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	27500	32500	37000	31600	42900	25000	45400	50700	41000	37600
	---	---	1131	4311	4748	7931	13330	8899	9300	1836	---	9800
0	2	6	6	11	7	2	4	2	3	0	43	
Medicinal chemistry	---	---	34775	38500	51250	48100	---	54000	---	---	---	50000
	---	---	26000	28000	31200	41700	30800	51800	---	---	---	36750
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	26000	28000	31200	41700	30800	51800	---	---	---	36750
	---	---	6802	8054	11868	10481	---	2082	---	---	---	11676
0	1	4	6	6	5	1	3	0	0	0	26	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Environmental chemistry	---	---	38000	39700	47250	44450	58500	56500	---	51600	---	40800
	---	---	27000	31000	37250	41000	56500	52000	---	44800	50900	34000
	---	---	24000	25000	29575	32000	40000	38500	---	44750	---	30000
	---	---	27400	30625	34410	38050	50617	44400	---	44200	58000	34075
	---	---	3045	5477	8854	7997	12064	9611	10182	---	---	10706
0	5	12	20	12	6	5	2	4	1	0	69	
Agricultural/food chemistry	---	---	33800	45125	50225	56700	---	---	---	50300	---	47000
	---	---	30900	37400	33000	48000	15150	38500	41100	52750	---	36800
	---	---	28000	31700	21700	38000	---	---	---	30500	---	30000
	---	---	29507	37433	36350	47443	35150	39500	40540	52750	---	38072
	---	---	4613	6904	22026	12461	21425	14637	10093	10253	---	127444
0	0	7	12	6	7	2	3	2	1	0	63	
Physical chemistry	---	---	42700	38725	---	---	---	58000	---	---	---	49150
	---	---	30000	32000	35650	---	33500	61500	50000	41650	54000	51200
	---	---	29075	34375	---	---	---	31000	---	---	---	32800
	---	---	30000	34650	37620	---	33500	61500	46667	1650	54000	51200
	---	---	7517	6816	---	2121	14849	14795	10194	---	---	10945
0	1	6	10	0	2	2	3	2	1	1	26	
Other chemistry	---	---	41000	56450	45000	57000	54850	55900	62500	---	---	48000
	---	---	31000	31500	39000	38000	42000	45000	42000	15000	49000	45000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	31000	32106	41040	39911	46050	45740	47040	48920	48000	42166
	---	---	1414	6057	12956	5331	11367	19644	17608	17851	---	22219
0	2	7	5	9	5	5	5	1	0	0	46	
Non-chemistry	---	---	48225	48000	60625	57000	73500	74125	62700	86000	---	61125
	---	---	42450	43150	50000	45050	51950	56650	61000	83700	---	50000
	---	---	33750	37500	38475	32500	51500	38100	44800	56500	---	40175
	---	---	41475	41700	51443	46888	54413	57000	54545	74540	---	52271
	---	---	7847	10761	14009	12023	16531	20175	14581	17246	---	16525
0	0	4	14	14	0	8	6	11	5	0	70	
TOTAL	---	---	30000	35000	41000	48000	55000	55000	60125	60000	65850	50000
---	---	27100	31300	34000	41300	43000	47200	50500	51200	52550	62850	40000
---	---	25000	28000	32000	35000	35750	38625	40600	44000	43000	---	32000
---	---	27808	31915	37186	42144	45848	47258	51102	53029	55717	42964	---
---	---	4247	5875	8348	10455	11425	14443	14800	13623	17212	11809	---
0	25	167	207	182	121	84	86	83	36	2	993	---

Table 2.3.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40		
Mgt-R&D	---	---	40900	45000	56500	59750	64925	69600	61000	76500	---	60500 - 75th %ile
	---	30000	37000	40000	50000	54500	55000	60500	61500	55000	---	51750 - 50th %ile
	---	---	25150	35500	43000	46800	42100	51500	51000	51000	---	42250 - 25th %ile
	---	30000	33800	42012	48167	52960	52950	63500	60807	62750	---	52301 - Mean
	---	---	8139	8787	1426	10309	15601	13526	11927	16211	---	14100 - Std Dev
	0	1	5	17	21	20	16	13	15	8	0	116 - Count
Basic research	---	32500	33000	36000	43400	42900	55500	50550	---	63400	---	40750
	---	27100	31850	34000	40250	35800	46600	42000	53950	56000	---	34700
	---	---	26500	27575	31750	35500	34000	37500	---	36100	---	31200
	---	29186	30638	33300	40071	37144	45720	43620	53950	51000	---	36448
	---	3638	4431	4199	5428	8344	11467	7244	71	14557	---	9082
	0	7	24	18	14	9	5	2	5	0	0	68
Applied research	---	30500	36000	40000	44500	48000	50800	56550	60000	52000	---	45000
	---	27650	31000	36000	39000	39600	47000	46100	51500	44100	42850	37000
	---	22950	28350	32000	33000	33000	41200	39000	44000	41200	---	31500
	---	28080	32104	36260	39574	41774	45352	48487	50747	46775	42850	39077
	---	5316	5472	6250	8125	12428	10278	12942	13873	8796	11809	10535
	0	10	73	85	67	35	23	10	19	7	2	351
General Mgt	---	---	40725	51000	51000	60250	75575	70375	68700	86000	---	59250
	---	---	36000	49450	44600	51250	57000	51500	56000	70000	---	48500
	---	---	28750	40875	39900	51075	40250	45875	46000	45500	---	41250
	---	---	34983	47140	46719	54129	58225	57500	59950	67167	---	51475
	---	---	6818	8767	9404	16521	18883	15981	15422	20398	---	14920
	0	0	6	10	23	14	8	6	8	3	0	76
Marketing	---	---	37250	45500	60625	55000	68500	66250	54350	81700	---	53500
	---	---	32000	37200	46000	45500	60700	59150	50000	50000	---	45000
	---	---	26700	32000	36750	38000	34500	49625	42225	43000	---	37350
	---	---	32724	38757	47100	45773	51340	60820	50264	58900	---	45009
	---	---	7804	10792	12307	9548	19162	14520	15168	21761	---	14614
	0	0	17	23	14	11	5	10	14	3	0	97
Prod & QC	---	---	33400	39000	49375	48125	44250	45100	60000	75000	---	44875
	---	27150	29100	35000	39300	38000	37000	41500	48500	43200	---	36000
	---	---	25000	30400	30775	30250	25750	37825	43200	33500	---	29625
	---	27150	29988	35132	41271	40025	35757	41070	51827	52040	---	38501
	---	1061	5815	7077	15319	12978	10762	5895	13606	22641	---	13044
	0	2	25	25	28	16	14	10	15	5	0	140
Forensic	---	---	36500	32875	---	50900	49750	---	---	---	---	46000
	---	22500	26800	30900	44700	40400	46000	---	50950	30900	---	33500
	---	---	24150	26150	---	29750	42250	---	---	---	---	27000
	---	22500	29150	31100	44700	40150	46000	---	50950	30900	---	38222
	---	707	6935	9338	3960	11035	4082	---	7142	---	---	15884
	0	2	4	8	2	4	4	0	2	1	0	27
Writing	---	---	---	---	---	---	---	---	---	---	---	55700
	---	---	---	15300	32000	---	---	61000	39800	---	---	35900
	---	---	---	---	---	---	---	---	---	---	---	19475
	---	---	---	15300	32000	---	---	61000	39800	---	---	37025
	---	---	---	---	---	---	---	---	---	---	---	18971
	0	0	0	1	1	1	0	1	1	0	0	4
Chemical Information	---	---	---	32750	35500	---	---	58000	---	---	---	42675
	---	---	---	30050	33250	40000	45000	40000	43300	---	---	42750
	---	---	---	25025	31375	---	---	30500	---	---	---	30125
	---	---	---	29275	33375	40000	45000	43100	43100	---	---	37075
	---	---	---	4101	2136	14142	21213	13894	---	---	---	10611
	0	0	0	4	4	2	2	3	1	0	0	16
Computer	---	---	40944	---	---	---	---	---	---	---	---	38586
	---	28100	34700	36400	---	---	---	---	---	---	---	34850
	---	---	29000	---	---	---	---	---	---	---	---	28825
	---	28300	34881	36400	---	---	---	---	---	---	---	34281
	---	---	5974	1980	---	---	---	---	---	---	---	4922
	0	1	3	2	0	0	0	0	0	0	0	6
Consulting	---	---	34725	57275	48000	64500	---	61800	---	---	---	49775
	---	27000	30000	42050	45000	51500	32000	33500	46450	90000	---	40500
	---	---	27750	29750	36000	41500	---	28000	---	---	---	30500
	---	27000	30825	43025	43000	52500	32000	41100	45450	90000	---	42807
	---	4243	3914	14320	6272	12396	---	18136	9122	---	---	14841
	0	2	4	4	7	4	1	3	2	1	0	28
Other	---	---	42450	48000	---	72000	61000	66000	49650	63000	---	53100
	---	---	37500	43650	32800	56900	52000	60000	48300	53100	---	46000
	---	---	34000	37250	---	44000	37000	34000	36000	50000	---	37500
	---	---	38080	42950	32800	57780	50000	53333	44650	55367	---	46546
	---	---	5124	6946	9475	15124	12124	17010	8475	6790	---	11685
	0	0	5	10	2	5	3	3	4	3	0	35
No Response	---	---	---	---	---	---	74000	---	---	---	---	49417
	---	---	11000	---	29333	50000	47667	29500	---	---	---	36500
	---	---	---	---	---	---	40000	---	---	---	---	29750
	---	---	11000	---	29333	50000	51889	29500	---	---	---	41375
	---	---	---	---	---	---	17834	4950	---	---	---	15764
	0	0	1	0	1	1	3	2	0	0	0	8
TOTAL	---	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	50000
	---	27100	31700	36000	41000	43000	47200	50000	51200	52550	42850	40000
	---	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	32000
	---	27668	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11609	13413
	0	25	167	207	182	121	84	86	83	36	2	993

Table 2.3.3

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
according to NUMBER OF PROFESSIONAL AND TECHNICAL SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

PROF. & TECH. SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
0	---	30000	33250	38000	42000	50000	50750	54000	59500	44900	---	43050	- 75th %-ile
	---	27100	29450	33500	37000	38500	41600	42700	52050	42100	---	34900	- 50th %-ile
	---	26000	26975	29000	32000	32250	33000	35000	39575	33392	---	29075	- 25th %-ile
	---	27827	30914	34370	38701	41489	42355	45163	50788	40362	---	37437	- Mean
	---	3657	5850	8109	11020	12527	13431	11654	14033	8649	---	11466	- Std Dev
	0	15	78	89	51	36	32	27	24	10	0	362	- Count
1-2	---	40000	36200	39975	44800	48000	50800	55250	53650	60900	---	46700	
	---	30000	32000	35800	40000	42000	46000	45200	50000	52000	34500	39800	
	---	27900	28625	32000	33725	35250	42000	40000	46250	49000	---	32500	
	---	32633	32218	36283	40628	41921	44565	48236	49188	57571	34500	40422	
	---	6466	5269	5366	9497	10040	10898	13355	8309	15201	---	10707	
	0	3	44	48	52	29	23	22	17	7	1	245	
3-7	---	30000	36900	44525	50000	58000	63925	60375	66750	63000	---	50800	
	---	26400	31500	36600	42450	41000	54000	52300	49250	56000	51200	41650	
	---	23000	29025	34250	36300	35000	39875	45500	44600	50000	---	34850	
	---	25914	32736	38314	42880	45697	51675	53715	55194	56114	51200	43270	
	---	3344	5441	7821	8267	12959	16051	14643	15073	8068	---	13063	
	0	7	32	44	42	29	12	20	18	7	1	212	
8-12	---	---	40500	50000	51750	58700	62500	50375	61500	---	---	55000	
	---	---	32900	48500	49000	53200	51500	48400	52000	57500	---	48000	
	---	---	29725	40000	44250	42000	40000	39975	49000	---	---	40000	
	---	---	34438	46613	46606	52218	52167	46367	53111	57500	---	47658	
	---	---	6709	7592	12217	13885	11839	7551	9749	3536	---	11366	
	0	0	8	15	16	11	6	6	9	2	0	73	
13-17	---	---	---	46800	45750	59750	62150	65000	---	---	---	56725	
	---	---	36050	45000	44400	55250	52000	60000	46000	83700	---	46250	
	---	---	---	40000	40100	48125	34000	46000	---	---	---	40750	
	---	---	36050	44300	44488	54375	48860	57000	46000	83700	---	48331	
	---	---	19728	4551	6719	6210	14464	9849	8485	---	---	11662	
	0	0	2	7	8	4	5	3	2	1	0	32	
18-22	---	---	---	---	52500	63000	---	---	68500	---	---	61700	
	---	---	32900	49900	48000	43000	---	65600	52150	45500	---	47750	
	---	---	---	---	44250	41100	---	---	43025	---	---	42250	
	---	---	32900	49900	48250	49033	---	65600	55500	45500	---	50770	
	---	---	4808	11172	4500	12133	---	2263	17369	---	---	13165	
	0	0	2	2	4	3	0	2	4	1	0	20	
23-32	---	---	---	---	50600	66500	---	86500	---	89500	---	71000	
	---	---	---	64000	44000	53600	61200	72000	55000	70000	---	61000	
	---	---	---	42000	41000	---	---	65000	---	40600	---	47000	
	---	---	---	64000	45533	53720	61200	74500	55000	66040	---	59776	
	---	---	---	4500	13498	283	10966	7071	25554	---	---	16398	
	0	0	0	1	3	5	2	3	2	5	0	21	
33-47	---	---	---	---	64750	74000	88000	---	---	---	---	73500	
	---	---	---	---	63500	63000	73000	58000	62700	82000	---	63000	
	---	---	---	---	57000	61400	56500	---	---	---	---	59700	
	---	---	---	---	61750	66133	72500	58000	62700	82000	---	66585	
	---	---	---	---	4573	6860	19756	---	---	---	---	9912	
	0	0	0	0	4	3	3	1	1	1	0	13	
48-67	---	---	---	---	---	---	---	---	---	---	---	81000	
	---	---	40000	---	36000	59000	72000	84000	73500	70000	---	65000	
	---	---	---	---	---	---	---	---	---	---	---	44750	
	---	---	40000	---	36000	59000	72000	84000	73500	70000	---	63500	
	---	---	---	---	---	---	---	19092	---	---	---	18624	
	0	0	1	0	1	1	1	1	2	1	0	8	
68-99	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
>=100	---	---	---	---	---	---	---	---	---	---	---	90000	
	---	---	---	38000	69000	90000	---	94000	65050	80000	---	80000	
	---	---	---	---	---	---	---	---	---	---	---	41100	
	---	---	---	38000	69000	90000	---	94000	65050	80000	---	71586	
	---	---	---	---	---	---	---	---	33870	---	---	23380	
	0	0	0	1	1	1	0	1	2	1	0	7	
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	---	40000	
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	---	42094	
	---	4247	5875	8348	10455	13425	14443	14880	13623	17212	11809	13413	
	0	25	167	207	187	171	94	86	83	36	2	993	

Table 2.3.4

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40	No Resp	
0	---	31000	33000	37150	42325	50000	50750	54000	59000	46600	---	43000 - 75th %ile
	---	27100	29100	33650	37100	37500	42500	42700	51900	43000	---	35000 - 50th %ile
	---	26250	26850	29350	32000	32000	36000	35000	36900	37611	---	29308 - 25th %ile
	---	28085	30855	34345	38751	40906	42602	45163	50205	42180	---	37504 - Mean
	---	3781	5982	7905	10697	13094	12367	11654	14382	6853	---	11344 - Std Dev
	0	13	88	76	46	31	28	27	21	9	0	320 - Count
1-2	---	35000	36000	40600	43400	48000	51500	55750	53650	75450	---	45400
	---	28300	32000	35800	39750	42250	46300	45200	50000	52000	34500	38750
	---	25950	28625	32000	33175	36000	39925	38000	46250	46550	---	32175
	---	30040	32234	35988	40314	41950	45455	48495	50094	59200	34500	40011
	---	5985	5117	6347	9919	7572	12671	13942	9487	18272	---	10953
	0	5	44	58	52	26	22	20	17	5	1	248
3-7	---	30500	38500	44775	50900	56950	59275	61125	52500	61500	---	50000
	---	26400	32000	36400	43000	45000	47000	52150	47250	55000	51200	41500
	---	23000	29775	33375	36650	35000	39875	40725	43950	46500	---	33650
	---	25914	32812	38233	43324	46969	49133	52878	49883	52422	51200	42549
	---	3344	5170	7906	7486	13246	15288	15656	8027	12750	---	12224
	0	7	36	42	33	29	12	18	18	9	1	205
8-12	---	---	39750	49950	55750	56275	62500	60125	63750	---	---	55000
	---	---	31800	45950	49500	48250	51500	46500	60750	55000	---	48000
	---	---	26525	37875	45350	35750	32500	43575	50000	---	---	38500
	---	---	32938	45325	47713	47319	47875	49700	59000	55000	---	47351
	---	---	7593	8011	12614	15007	17083	8529	16396	---	---	13756
	0	0	8	16	16	16	8	6	10	1	0	81
13-17	---	---	39125	46725	45500	58500	59725	---	52000	---	---	51875
	---	---	27750	44000	44000	54250	45000	57500	52000	67850	---	44800
	---	---	22825	38298	36500	48125	32000	---	40000	---	---	38000
	---	---	29900	42763	41285	53625	45575	57500	48000	67850	---	44648
	---	---	8787	7139	8899	5437	14387	10607	6928	22415	---	12183
	0	0	4	8	13	4	4	2	3	2	0	40
18-22	---	---	46575	43500	50000	61500	---	66400	68500	---	---	56100
	---	---	32900	39000	48000	43000	50000	55000	52150	---	---	44850
	---	---	27175	28500	34300	36550	---	41500	43025	---	---	36075
	---	---	35550	37000	44471	47820	50000	54300	55500	---	---	46588
	---	---	10483	8083	7762	13205	14142	13340	17369	---	---	13270
	0	0	4	4	7	5	2	4	6	0	0	32
23-32	---	---	---	62450	47500	66500	62000	---	---	93000	---	65500
	---	---	---	53900	44000	53600	61400	66000	70400	70000	---	60000
	---	---	---	46250	42000	41000	61000	---	---	50000	---	46875
	---	---	---	54200	44500	53720	61467	66000	70400	71000	---	58595
	---	---	---	8392	2784	13498	503	8485	14708	21517	---	13518
	0	0	0	4	3	5	3	2	2	3	0	22
33-47	---	---	---	---	64250	---	---	---	---	---	---	64750
	---	---	---	---	59000	67700	60500	55500	56350	56600	---	59700
	---	---	---	---	45250	---	---	---	---	---	---	50000
	---	---	---	---	54667	67700	60500	55500	56350	56600	---	57581
	---	---	---	---	13003	8910	17678	3536	8980	35921	---	13921
	0	0	0	0	6	2	2	2	2	2	0	16
48-67	---	---	---	---	---	---	---	85875	---	---	---	81000
	---	---	---	---	---	---	---	64250	74500	87000	---	62000
	---	---	---	---	---	---	---	54350	---	---	---	41800
	---	---	---	---	---	---	---	64250	71575	87000	---	61800
	---	---	---	---	1980	---	10960	16852	---	---	---	18914
	0	0	1	0	2	1	2	4	1	1	0	12
68-99	---	---	---	---	---	---	---	---	---	---	---	62250
	---	---	---	---	45300	63000	---	---	---	60000	---	55300
	---	---	---	---	---	---	---	---	---	---	---	42650
	---	---	---	---	45300	63000	---	---	---	60000	---	53400
	---	---	---	---	7495	---	---	---	---	---	---	10378
	0	0	0	0	2	1	0	0	0	1	0	4
≥100	---	---	---	---	---	---	---	---	89000	86000	---	88500
	---	---	---	---	---	---	---	---	41100	45500	---	69000
	---	---	---	---	---	---	---	---	41100	45500	---	43300
	---	---	---	---	---	---	---	---	6367	70500	---	67354
	---	---	---	---	9899	---	---	---	24127	21857	---	21625
	0	0	1	1	2	1	1	1	3	3	0	13
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	80900	65850	---	50000
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413
	0	25	167	207	182	121	84	86	83	36	2	993

Table 2.3.5

SALARIES OF FULL-TIME EMPLOYED N.S. CHEMISTS IN PRIVATE INDUSTRY
according to TYPE OF INDUSTRY and YEARS SINCE BS
1986 Survey of ACS Members

TYPE OF INDUSTRY	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49		
Agricultural chemicals	---	---	30600	42500	58300	67825	59800	50950	60900	---	---	52650 = 75th S-file
	---	---	29500	35500	41900	52850	51000	47000	53900	---	---	40800 = 50th S-file
	---	---	29000	32000	38000	42250	50550	38000	52600	---	---	31300 = 25th S-file
	---	---	29073	36827	42943	53200	54340	39333	54086	---	---	42352 = Mean
	---	---	3660	4370	20589	17177	5278	12270	12666	---	---	13789 = Std Dev
	0	0	11	18	7	10	5	3	7	0	0	61 = Count
Coatings	---	---	38800	40575	60450	58700	50650	53250	62710	58750	---	51500
	---	---	28900	32900	36500	44950	51500	41300	45400	60000	52000	41600
	---	---	28700	31800	30750	39500	33500	25000	---	46750	44500	32900
	---	---	28850	32500	36650	45878	46114	42550	46780	54067	51750	42173
	---	---	6160	7753	14242	12989	7989	8056	12687	7365	---	11934
	0	1	13	6	12	7	4	5	3	4	0	55
Food	---	---	34700	44475	38000	52350	60900	---	61750	60900	---	48825
	---	---	29190	37800	32350	43000	38000	31150	44550	45500	51200	36000
	---	---	26025	31700	29750	33500	25000	---	34275	31200	---	30250
	---	---	30813	37675	31383	44944	39333	51150	47525	49567	51200	38510
	---	---	3560	7098	4986	17094	20033	2616	15745	14400	---	12187
	0	0	8	12	6	9	3	2	4	3	1	48
Metals	---	---	32190	39550	44200	61500	76000	---	---	---	---	53000
	---	---	25300	31800	44200	55500	52900	40500	56000	---	---	38000
	---	---	24150	26775	33000	49875	30500	---	---	---	---	28360
	---	---	27250	34100	40467	55625	52900	40500	56000	---	---	40746
	---	---	4614	11715	6466	6047	22000	2121	---	---	---	14099
	0	0	4	8	3	5	3	2	1	0	0	25
Paper	---	---	---	46875	56400	---	---	---	---	---	---	45325
	---	---	32200	41400	43000	41100	40900	44000	62650	---	---	41550
	---	---	---	35500	43000	---	---	---	---	---	---	38500
	---	---	12700	40525	46133	61100	40300	44000	62650	---	---	43950
	---	---	283	4827	8041	---	---	---	23547	---	---	11813
	0	0	7	4	3	1	2	1	2	0	0	14
Petroleum	---	---	36875	49100	59875	58900	51500	87600	71800	---	---	52000
	---	---	26300	34000	46600	49850	48750	48700	58900	50900	48400	46000
	---	---	29825	40325	37500	40500	47000	51000	47500	---	---	39800
	---	---	26500	34010	44190	49200	47150	49340	69440	56433	34222	46581
	---	---	4658	6972	11981	11907	2393	18657	13367	---	---	13976
	0	1	10	10	6	6	5	5	1	1	0	47
Pharmaceuticals	---	---	27130	34425	38900	50800	50800	47400	63750	66325	83250	46315
	---	---	26900	31500	34400	38900	37500	39700	58000	52100	68400	36300
	---	---	26400	27775	32500	35500	35900	32000	40800	47850	47750	32000
	---	---	26814	31484	36057	41813	41637	41822	54625	56517	66800	40352
	---	---	720	5585	6088	9354	10275	17086	16985	13276	19072	13116
	0	7	34	35	49	19	12	12	6	6	0	180
Rubber	---	---	31900	40900	49500	71000	47400	85000	51750	---	---	50375
	---	---	29700	35500	43000	46500	45000	53500	51300	43000	---	43000
	---	---	26575	33000	35850	35000	43000	42425	46150	---	---	35500
	---	---	29275	36860	43450	51500	45133	59975	53480	43000	---	45560
	---	---	2678	4555	7276	20469	2203	24180	8052	---	---	14730
	0	0	4	5	4	4	3	4	5	1	0	30
Soaps	---	---	40000	38000	38750	43500	42000	72000	62750	---	---	47000
	---	---	32000	34000	37000	31800	31500	53000	52500	32000	71000	37000
	---	---	22800	31000	35000	31000	21500	43500	40500	---	---	31950
	---	---	31600	34333	37140	35433	33500	56167	51750	32000	71000	41343
	---	---	8607	3512	1643	6997	14391	14511	11587	---	21213	14999
	0	3	3	5	3	5	3	4	1	7	0	30
Biochemical products	---	---	33800	39750	55750	67875	80000	---	---	---	---	44750
	---	---	30750	35000	33500	60000	55900	47100	---	---	---	34100
	---	---	27275	28000	28125	34125	36700	---	---	---	---	28200
	---	---	30063	34658	39125	54000	57533	47100	---	---	---	39519
	---	---	4417	6894	16260	18031	21896	---	---	---	---	14769
	0	0	8	12	4	4	3	1	0	0	0	32
Electronics	---	---	42275	50000	37150	---	47750	61825	50900	---	---	46000
	---	---	30000	37000	36600	36000	40700	44000	58150	50000	70000	41000
	---	---	31450	29500	32250	---	40525	45275	45700	---	---	33000
	---	---	30000	36729	38014	38125	40700	44450	55750	48567	70000	41204
	---	---	6473	15421	9219	1556	5097	10049	2483	---	---	10948
	0	1	14	7	8	0	6	4	3	1	1	47
Other chemicals	---	---	27800	33000	45000	47500	53750	58750	59700	55900	54750	52000
	---	---	23000	26000	36700	40400	45000	49000	48500	51100	51000	44000
	---	---	21900	24500	31250	36000	35350	41000	44600	42700	---	35000
	---	---	24267	28627	38919	43413	46129	47317	49904	54241	48440	44575
	---	---	3194	5986	9948	11447	14942	17525	12712	16439	8643	14263
	0	3	11	32	23	17	12	23	22	10	9	153
Other products	---	---	32750	36600	40800	50000	55300	61400	58250	56600	82000	50300
	---	---	30900	29000	35400	41100	46500	52000	47000	51000	52000	42000
	---	---	26150	26300	32000	38000	37250	35000	37000	42950	43000	32000
	---	---	29560	30928	36626	42589	46564	48916	47753	50170	50814	42560
	---	---	4128	5456	7758	8065	12286	16176	13008	13246	21341	13187
	0	5	25	31	35	22	19	15	20	7	0	179
Non-efg	---	---	31875	38975	42250	48000	52500	56900	65400	69100	---	47750
	---	---	26500	31350	35000	42000	41000	40400	61000	58250	90000	39600
	---	---	22250	27500	28750	37500	35000	33500	40000	42950	---	30000
	---	---	26875	34145	35932	41621	43410	46880	54360	56517	90000	40555
	---	---	5170	7824	9706	7336	12273	13220	15923	13498	---	12881
	0	4	20	22	19	10	5	5	6	1	0	97
TOTAL	---	---	30000	35000	43000	48000	55000	55000	60125	60000	65850	50000
	---	---	27100	31200	36000	41000	43000	47000	50000	51200	52500	42850
	---	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	32000
	---	---	27688	31915	37186	42148	45846	47258	51102	53029	55717	42850
	---	---	4247	5875	8346	10445	13453	14443	14800	13621	17212	11609
	0	25	167	207	182	121	84	96	83	36	2	993

Table 2.3.6

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
according to GEOGRAPHIC REGION and YEARS SINCE BS
1986 Survey of ACS Members

GEOGRAPHIC REGION	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40		
Pacific	---	---	38250	41900	52000	48500	52000	63650	67075	61000	---	50000 - 75th %ile
	---	31000	31550	37000	43500	41000	48000	61800	46500	53500	51200	40000 - 50th %ile
	---	---	28125	29500	33000	36000	40000	55100	29750	38667	---	31125 - 25th %ile
	---	31000	32729	36680	42152	40786	47953	59860	49050	51056	51200	40679 - Mean
	---	1414	6704	9496	10819	8475	12464	4931	20746	12145	---	12249 - Std Dev
	0	2	28	25	23	7	15	5	6	4	1	116 - Count
Mountain	---	---	---	42000	50500	47000	---	---	---	---	---	49100
	---	---	33950	39400	39800	27000	39850	65000	70000	70000	---	39800
	---	---	---	35000	20500	24000	---	---	---	---	---	30000
	---	---	33950	39343	36360	32667	39850	65000	70000	70000	---	42296
	---	---	7000	6088	18192	12503	13930	26870	---	---	---	16592
	0	0	2	7	5	3	2	2	1	1	0	23
W.N. Central	---	---	32850	40000	44750	49000	53000	54900	53500	---	---	49000
	---	---	29100	35000	41150	38000	46600	50000	52000	49750	---	39200
	---	---	26350	29700	36800	32000	21600	31150	47000	---	---	31000
	---	---	29500	35831	41569	42473	40400	44420	50650	49750	---	40121
	---	---	3907	6992	7527	14478	16593	12683	11274	6010	---	11096
	0	0	10	16	16	11	3	5	8	2	0	71
W.S. Central	---	---	38000	47500	54100	49875	72000	54500	68950	---	---	49175
	---	27900	33000	38000	45000	35000	45000	40000	50300	42000	---	40000
	---	---	25000	33000	39800	28875	32000	33250	45625	---	---	32625
	---	27900	33464	38989	46077	39000	49667	44556	54650	42000	---	41801
	---	---	7309	10201	9682	11955	20404	13406	12470	15698	---	12149
	0	1	11	19	13	8	3	9	6	2	0	72
E.N. Central	---	27025	33000	40050	48000	59000	59400	60500	61750	55000	---	48250
	---	26450	30500	36000	40500	47900	50000	45000	53900	50000	34500	39000
	---	22950	26900	32000	34425	40325	42375	41400	44300	43000	---	32000
	---	25370	30906	36948	42259	49273	48724	50076	53576	49300	34500	41410
	---	2223	4802	8141	10559	13333	15459	14120	13658	6511	---	13058
	0	10	39	56	44	26	24	17	17	7	1	241
E.S. Central	---	---	30075	40800	63500	---	---	67375	---	43200	---	46000
	---	---	29500	33000	37500	---	---	54850	---	41200	---	37500
	---	---	24500	30100	29000	---	---	44825	---	24000	---	30000
	---	---	28025	34960	44500	---	---	57417	---	36133	---	41839
	---	---	3387	6444	23043	---	---	16180	---	10555	---	17116
	0	0	4	5	5	0	0	6	0	3	0	23
Mid-Atlantic	---	31875	36900	44950	50000	55300	58000	60500	60000	69200	---	50700
	---	30000	32200	36000	42000	43900	42000	45400	52100	58000	---	41000
	---	27406	28275	32000	36000	35750	35850	40000	47925	44750	---	33075
	---	29975	32968	37607	43220	46112	45900	50211	55896	58350	---	41237
	---	3007	6639	8588	9761	14285	14475	16164	13722	13578	---	13597
	0	8	40	41	49	42	17	19	26	8	0	250
So. Atlantic	---	40000	34100	44225	41275	54750	55675	61250	52300	85425	---	50000
	---	23000	29500	38200	34750	43000	46000	50700	47250	71450	---	40000
	---	22000	26800	34550	30850	38500	37500	46875	36900	49750	---	32000
	---	28333	30214	39275	36402	47150	44817	52340	48667	66850	---	42673
	---	10116	4454	8037	7345	11694	11591	11966	14726	21586	---	14559
	0	3	21	16	16	16	12	10	12	8	0	114
New England	---	---	41600	40550	45250	65000	70000	64750	60950	---	---	52300
	---	28300	33600	33250	40400	58700	51000	52300	50000	93006	---	42000
	---	---	30000	29475	37175	42000	41000	42500	43650	---	---	33250
	---	28300	34436	35405	42375	53529	53571	56256	51840	93000	---	44383
	---	---	6179	8329	8030	12346	20165	17128	9557	---	---	15480
	0	1	11	20	8	7	7	9	5	1	0	69
No Response	---	---	---	---	51333	---	---	54975	---	---	---	48750
	---	---	33000	34300	48000	38000	38000	35950	48350	---	---	38000
	---	---	---	---	35000	---	---	31250	---	---	---	33750
	---	---	33000	34300	44778	38000	38000	40725	48350	---	---	40824
	---	---	---	424	8630	---	---	13452	3748	---	---	8895
	0	0	1	2	3	1	1	4	2	0	0	14
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413
	0	25	167	207	182	121	84	86	83	36	2	993

Table 2.4.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
According to WORK SPECIALTY AND YEARS SINCE BS
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS													TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	
Biochemistry	---	---	39950	47400	62250	60000	70833	79111	82500	---	---	---	---	60000 - 75th S-ile
	---	---	38200	42900	52100	47000	56500	73000	49500	68722	---	---	---	46200 - 50th S-ile
	---	---	34625	37600	41875	36000	42875	58100	49600	---	---	---	---	39600 - 25th S-ile
	---	---	37520	42400	53500	48733	56595	71597	67700	68722	---	---	---	51325 - Mean
	---	---	3046	6145	16762	15335	14534	13501	17275	15163	---	---	---	16109 - Std Dev
	0	0	10	25	20	15	14	8	4	2	0	0	0	99 - Count
Biotechnology	---	---	40125	50800	58125	67900	58750	85000	93000	---	---	---	---	54150
	---	---	40000	45000	50900	52000	52400	85000	50000	36000	---	---	---	48900
	---	---	37625	42000	44675	47100	50000	55000	50000	---	---	---	---	41175
	---	---	42607	46440	49781	56040	56913	75000	64333	36000	---	---	---	50151
	---	---	13751	5614	14241	13907	11595	17321	24826	---	---	---	---	14203
	0	0	14	20	18	5	8	3	3	1	0	0	0	72
General chemistry	---	---	---	---	51250	57000	75000	---	70000	81900	---	---	---	60500
	---	---	38500	45750	51500	60900	65000	64000	81000	51000	26900	---	---	52300
	---	---	---	---	41675	43750	47000	---	25400	46000	---	---	---	42900
	---	---	38500	46020	49100	60771	68500	53267	63257	51000	26900	---	---	52816
	---	---	4950	6640	14027	12246	37477	23975	20286	---	---	---	---	14447
	0	0	7	10	10	7	2	3	7	1	1	0	0	43
Analytical chemistry	---	---	42375	48700	50900	59000	64000	65300	68500	74000	---	---	---	56025
	---	---	40000	44000	45000	53200	50400	54500	59000	65000	---	---	---	45000
	---	---	37475	39000	40900	43225	42500	45000	51000	48950	---	---	---	40000
	---	---	39834	44488	46024	51948	51156	54778	61521	64300	---	---	---	48435
	---	---	3689	8866	8703	13541	13953	18361	14502	16458	---	---	---	12798
	0	0	64	75	67	62	43	27	18	9	0	0	0	366
Inorganic chemistry	---	---	43650	48450	56000	66250	63850	72500	73300	69375	---	---	---	56550
	43500	---	40100	42000	48000	57500	54200	56000	64000	51250	---	---	---	47500
	---	---	37725	39000	42000	50250	52500	48000	50000	38667	---	---	---	40550
	43500	---	41081	43772	49507	58447	56850	59923	63782	57537	---	---	---	50115
	---	---	4372	5620	8714	11316	5848	14168	12679	21646	---	---	---	12285
	1	0	26	37	27	17	4	13	11	6	0	0	0	137
Organic chemistry	---	---	42000	47750	54825	67250	66000	71500	74875	70000	---	---	---	61150
	21500	34000	39000	40000	49150	59500	59500	59000	80750	56850	---	---	---	49600
	---	---	37850	39800	43000	50750	50000	47375	47750	45375	---	---	---	42000
	21500	34000	39811	43917	49672	60230	59459	58658	60397	57133	---	---	---	52314
	---	---	6666	6855	9101	12251	12917	17917	16867	12830	---	---	---	13938
	1	1	44	77	74	74	39	38	32	16	0	0	0	396
Polymer chemistry	---	---	42850	48000	55675	63800	66000	75000	77000	70925	---	---	---	62600
	---	---	39800	44100	49900	56100	59300	52300	62500	55850	45500	---	---	51800
	---	---	37950	42000	43150	48875	52000	49250	52000	47750	---	---	---	43975
	---	---	40172	44917	50872	56441	60487	62787	64588	59606	45500	---	---	54226
	---	---	3854	6233	9347	11608	12487	14727	14887	15752	27577	---	---	13730
	0	0	46	63	66	66	59	53	43	16	2	0	0	418
Pharmaceutical chemistry	---	---	42100	47250	60000	65000	71475	57075	78000	76350	---	---	---	60000
	---	---	40000	42050	48700	57444	55450	52600	68000	70700	---	---	---	47200
	---	---	37625	37925	43050	46000	42875	49225	56800	70000	---	---	---	41000
	---	---	40080	42628	49906	59359	54892	53100	67618	72350	---	---	---	51347
	---	---	2745	6514	12346	15054	20824	4751	17815	3824	---	---	---	15364
	0	0	20	18	17	11	12	6	11	4	0	0	0	99
Medicinal/clinical chemistry	---	---	44200	54675	58400	68000	73250	68000	75500	88025	---	---	---	60000
	---	---	41550	44750	49000	58000	57950	57400	60500	73500	54000	---	---	50600
	---	---	38500	40125	40250	50000	46750	50900	50300	58375	---	---	---	41400
	---	---	41650	46779	50190	60047	56550	58936	61667	73433	54000	---	---	54028
	---	---	3828	9606	12889	14504	16856	14774	12745	15795	5485	---	---	14442
	0	0	8	24	21	17	12	11	6	6	2	0	0	107
Theoretical chemistry	---	---	---	---	53100	---	---	---	---	---	---	---	---	62400
	---	---	44400	48150	---	67000	70000	---	---	---	---	---	---	50000
	---	---	---	42950	---	---	---	---	---	---	---	---	---	41100
	---	---	44000	49117	---	67000	70000	---	---	---	---	---	---	53733
	---	---	7212	7197	---	---	14142	---	---	---	---	---	---	12248
	0	0	2	6	0	1	2	0	0	0	0	0	0	11
Environmental chemistry	---	---	39125	48000	64400	70250	73375	89825	72000	---	---	---	---	65000
	---	---	38000	41000	45300	59650	61250	55650	68000	70000	38800	---	---	52900
	---	---	35500	36500	40400	52675	53250	46500	65000	---	---	---	---	42000
	---	---	37875	41800	50365	59667	67892	58700	66414	70000	35933	---	---	54223
	---	---	1436	7529	12444	13751	14874	13956	11981	---	---	---	---	14686
	0	0	4	15	15	14	12	8	7	1	3	0	0	75
Agricultural/food chemistry	---	---	38650	50600	53225	70000	64500	80750	79200	---	---	---	---	58500
	---	---	37450	43500	50200	53000	58200	62900	75000	---	---	---	---	50300
	---	---	35725	38900	47250	48000	49750	45825	36000	---	---	---	---	43175
	---	---	37600	43484	50395	57184	58115	61533	63400	---	---	---	---	52364
	---	---	1037	7782	6909	12563	11567	22218	23822	---	---	---	---	14089
	0	0	6	21	20	19	13	12	3	0	0	0	0	94
Physical chemistry	---	---	43150	52250	62500	67300	80125	76500	85000	70133	---	---	---	69900
	---	---	40200	48000	51250	57000	70000	61300	76000	61500	---	---	---	55000
	---	---	35500	43150	46625	51500	59125	48475	55750	51750	---	---	---	48850
	---	---	39234	40383	50035	59012	68000	62574	71617	61601	---	---	---	58244
	---	---	5992	7297	12712	13986	14072	16888	16962	9316	---	---	---	15131
	0	0	13	24	34	33	22	16	18	8	0	0	0	168
Other chemistry	---	---	42700	51500	50500	56875	64875	84000	87000	81750	---	---	---	67125
	---	---	31500	39600	42000	47500	61000	56500	59900	76000	81000	---	---	54400
	---	---	35500	38900	45000	50000	48750	52450	60000	79500	---	---	---	48200
	---	---	31500	39200	45985	49189	61650	54914	65450	72745	80700	---	---	57547
	---	---	4418	8920	7741	13569	10929	17508	14824	1641	---	---	---	15922
	0	1	5	13	9	16	14	4	11	5	0	0	0	78
Non-chemistry	---	---	47800	56000	65000	74750	73750	86000	80000	77000	---	---	---	70000
	29000	---	39500	47250	57750	56000	59000	75500	61500	60000	---	---	---	56000
	---	---	35625	40875	49500	45850	48000	68750	55000	51600	---	---	---	48200
	29000	---	40310	47450	59023	58530	60771	76143	65666	63440	---	---	---	58057
	---	---	8393	12704	13864	15652	18201	9164	15993	15132	---	---	---	16929
	1	0	10	22	26	33	28	14	20	5	0	0	0	159
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	---	---	61000
29000	32750	39600	44000	49150	54100	58000	60000	80000	61000	39400	---	---	---	50000
21500	---	37500	40000	43750	48000	49000	49950	57000	51075	27425	---	---	---	42000
31333	32750	40076	44850	50536	57323	70287	61388	65073	62476	47113	---	---	---	52979
11184	1768	5510	7819	11126	13180	14609	16641	15793	15393	14968	---	---	---	14587
3	2	274	441	476	392	284	217	195	80	8	0	0	0	2,322

Table 2.4.2

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49		
Mgt-R&D	---	---	44000	55400	65000	75000	74500	86000	85000	73700	---	75000 - 75th %ile
	---	---	43000	51000	59400	63000	65000	71000	78000	69000	---	63000 - 50th %ile
	---	---	38000	46500	53000	57000	55450	60200	67000	54500	---	54000 - 25th %ile
	---	---	40429	51309	60311	65079	64887	71167	74904	65286	---	64161 - Mean
	---	---	13302	7011	11857	12294	14904	15768	12782	14350	---	14493 - Std Dev
	0	0	7	55	87	137	93	57	55	22	0	513 - Count
Basic research	---	---	42150	48000	55450	60000	68000	75250	72650	75925	---	55775
	21500	---	40000	44000	49100	53750	59500	67000	64000	56850	---	46100
	---	---	38000	40500	42250	48000	46600	54500	58000	49800	---	40075
	21500	---	40409	44652	48536	54116	57704	64395	65524	61562	61500	49029
	---	---	4078	6378	8650	9630	15495	16949	12526	19150	3536	12022
	1	0	85	103	69	56	23	20	17	10	2	386
Applied research	---	---	42000	47500	51000	60400	62200	66400	63975	73675	---	54000
	16250	34000	39500	42000	46650	51000	55000	53800	52850	60000	27950	46200
	---	---	37500	39000	42225	44500	48500	48000	48000	49625	---	40975
	16250	34000	39823	43254	47396	52898	56396	57356	56639	61260	27950	48673
	10253	---	4062	7161	8628	10493	11010	12964	14128	13634	1485	11527
	2	1	157	229	206	123	95	85	76	30	2	1,006
General Mgt	---	---	---	57000	66250	79475	75750	77000	83125	96000	---	76000
	---	---	47000	46700	61500	64500	58400	65500	73200	81000	42000	62250
	---	---	---	35000	50500	51975	48500	50000	66550	70000	---	50000
	---	---	47000	44243	58850	64600	61588	64214	72050	82333	42000	62664
	---	---	---	14798	12576	17223	18910	17629	14865	13051	---	17680
	0	0	1	7	14	16	24	14	14	3	1	94
Marketing	---	---	---	52000	58750	59750	60150	71000	63000	---	---	60000
	---	---	36300	45000	51000	55650	51000	64000	60000	81000	42400	53000
	---	---	---	40000	45600	48250	42500	52000	59100	---	---	45000
	---	---	36300	47636	52638	56275	52492	61857	60700	81000	42400	53700
	---	---	2121	13712	10756	9949	11992	11157	2272	---	7920	12044
	0	0	2	11	13	16	13	7	4	1	2	69
Prod & QC	---	---	41850	48225	52400	53400	59250	57000	67625	69600	---	53950
	---	---	37000	45050	45000	45000	47000	54200	52800	52000	---	46200
	---	---	32500	35125	38800	42000	39500	38400	45925	38500	---	39150
	---	---	37140	43880	45547	44853	48407	48900	58113	51400	---	47069
	---	---	4952	8317	9360	12897	16685	19538	18506	18985	---	14328
	0	0	5	10	17	19	14	9	8	6	0	88
Forensic	---	---	42250	50000	57500	45525	54625	50000	---	---	---	46000
	---	---	40000	39900	44200	42550	46750	45000	---	58000	---	41000
	---	---	37900	38500	20000	40250	37750	35100	---	---	---	38500
	---	---	39678	42557	40567	42775	46375	42567	---	58000	---	42549
	---	---	3269	6024	19012	2769	9196	10825	---	---	---	8383
	0	0	9	7	3	4	4	7	0	1	0	35
Writing	---	---	---	---	---	20000	---	---	---	---	---	70300
	---	---	48000	---	56000	64000	53700	79600	51900	---	---	54850
	---	---	---	---	---	40000	---	---	---	---	---	48875
	---	---	48000	---	56000	58000	53700	79600	51900	---	---	58990
	---	---	---	7778	---	15875	---	11879	---	---	---	14531
	2	0	0	2	0	1	3	1	2	1	0	10
Chemical information	---	---	51000	---	---	68500	---	---	---	---	---	62000
	---	---	48000	31100	52600	51700	63750	61450	---	---	---	50000
	---	---	42000	---	---	50000	---	---	---	---	---	45700
	---	---	47000	31100	52600	56733	63750	61450	---	---	---	53685
	---	---	4583	---	4101	10226	25809	21991	---	---	---	14187
	0	0	0	3	1	2	3	2	2	0	0	13
Computer	---	---	---	57750	---	54250	---	---	---	---	---	55000
	---	---	44900	46250	46000	40000	---	---	55000	---	---	42500
	---	---	---	36750	---	36875	---	---	---	---	---	38000
	---	---	44900	47083	46000	45688	---	---	55000	---	---	46990
	---	---	7212	10452	7071	13879	---	---	0	---	---	10636
	0	0	2	6	2	8	0	0	2	0	0	20
Consulting	---	---	---	45500	50875	---	---	---	82000	---	---	57750
	---	31500	40000	41000	46650	58100	58000	42400	75000	---	---	46200
	---	---	---	31000	44100	---	---	---	55000	---	---	41000
	---	31500	40000	38800	47933	58100	58000	42400	70667	---	---	49510
	---	---	---	8044	6095	16829	2828	---	14012	---	---	13814
	0	1	1	5	6	2	2	1	3	0	0	21
Other	---	---	63000	---	53000	59300	62500	77625	80000	63000	---	66000
	---	---	35000	47000	50000	46000	55000	54850	67000	53200	---	53200
	---	---	28750	---	41000	40000	42350	41725	55000	50000	---	42350
	---	---	43700	47000	48000	51257	54022	57138	67527	55400	---	55420
	---	---	26276	9899	6928	12777	13509	23952	16971	6773	---	17827
	0	0	5	2	4	7	9	8	11	3	0	49
No Response	---	---	---	---	55250	---	---	76556	---	79444	---	74000
	---	---	---	53778	43450	57444	73333	58178	80000	72111	26000	56650
	---	---	---	---	22725	---	---	63114	---	45222	---	43725
	---	---	---	53778	40475	57444	73333	58480	89000	65592	26000	55562
	---	---	---	---	17893	---	---	17029	---	18018	---	18969
	0	0	0	1	4	1	1	6	1	3	1	18
TOTAL	43500	---	42075	49000	56000	65000	67375	74500	78500	72478	57000	61000
	29000	32750	39600	44000	49150	56100	58900	60900	64000	61500	39400	50000
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000
	11333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15193	14968	14587
	3	2	274	441	426	392	284	217	195	80	8	2,322

Table 2.4.3

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
according to NUMBER OF PROFESSIONAL AND TECHNICAL SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

YEARS SINCE BS												
PROF. & TECH. SUBORDINATE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40	No Resp	TOTAL
0	---	---	40000	45300	51125	56250	62000	62675	73000	74700	45200	53500 - 75th %ile
	21500	34000	38000	40900	45000	49000	51000	51500	61000	53200	32900	44350 - 50th %ile
	---	---	36000	37200	41125	44000	43250	45270	49000	45861	26750	38000 - 25th %ile
	21500	34000	37633	42281	46152	50563	52880	54531	60674	58516	34950	47746 - Mean
	---	---	4109	8818	10243	10965	13464	14074	16976	17720	9819	13614 - Std Dev
	1	1	80	95	58	58	49	40	43	25	4	454 - Count
1-2	---	---	43000	47000	51000	59350	61000	65500	65400	76400	---	54500
	29000	---	39950	43000	47000	52400	54500	55500	56000	64500	45950	46200
	---	---	38000	40000	42000	44875	48500	47275	48000	53150	---	41000
	29000	---	40794	43772	47233	52677	54962	56209	58130	64519	45950	48694
	---	---	5886	6005	7646	10428	10969	13808	12957	12744	26941	11027
	1	0	138	190	159	110	89	68	47	21	2	829
3-7	---	---	43050	50000	54125	59500	65250	68750	72000	65500	---	58000
	43500	31500	41000	46200	48000	53400	60000	53900	65200	58000	---	50000
	---	---	38000	41000	43000	44800	52250	48250	52250	47300	---	43000
	43500	31500	41131	45618	48787	52943	59018	58228	64507	56077	---	51446
	---	---	4564	7538	8505	9828	10408	17675	14450	12849	---	12250
	1	1	45	111	110	77	50	40	45	17	0	497
8-12	---	---	48025	57000	60000	66700	69750	72000	79100	72600	---	65000
	---	---	43250	52500	56000	60800	58500	62900	75000	70000	42000	58000
	---	---	39900	48000	49250	52250	50475	60000	55800	58000	---	50000
	---	---	43960	52200	54404	60847	60828	66200	69024	68867	42000	58840
	---	---	7015	7238	10507	10094	15443	12732	12127	7788	---	12693
	0	0	10	27	45	53	36	23	17	3	1	215
13-17	---	---	---	55250	69750	75000	78075	85000	87250	---	---	75000
	---	---	---	50750	62500	67000	62700	80000	67500	52700	---	63000
	---	---	---	47900	52250	59450	52250	62300	48550	---	---	54000
	---	---	---	51490	60565	67481	65438	76620	67425	52700	---	65184
	---	---	---	5817	12640	10391	16534	12337	19350	---	---	14500
	0	0	0	10	20	21	16	15	8	1	0	91
18-22	---	---	---	55400	68000	78000	64750	82500	98500	82000	---	77875
	---	---	---	54800	63000	67000	61500	71000	79400	69500	---	65000
	---	---	---	51000	54000	58000	49325	65300	63750	52500	---	57500
	---	---	---	53733	61533	66900	59763	72743	77300	68000	---	66185
	---	---	---	2386	19414	12911	12645	8240	12680	16021	---	12800
	0	0	0	3	9	15	8	7	6	4	0	52
23-32	---	---	---	58000	65000	66625	80000	84750	81250	78750	---	74250
	---	---	---	50200	64000	61100	70000	79000	71500	71000	60000	64450
	---	---	---	43000	58250	54750	60150	66750	63325	66250	---	57750
	---	---	---	50400	62677	61027	69946	75982	72183	72000	60000	65812
	---	---	---	7502	6346	9269	11685	11031	13841	6683	---	11297
	0	0	0	3	13	22	13	8	6	4	1	70
33-47	---	---	---	---	92500	83750	85000	82900	84000	---	---	84000
	---	---	---	---	70000	72200	75000	80000	81000	82600	---	76000
	---	---	---	---	61500	62750	62500	70000	69000	---	---	65000
	---	---	---	---	75600	72650	70973	76029	77000	82600	---	74184
	---	---	---	---	16103	10291	20432	10687	9445	7920	---	13746
	0	0	0	0	5	12	11	7	6	2	0	43
48-67	---	---	---	---	89100	81500	86625	90000	85000	96000	---	85000
	---	---	---	78000	82000	72500	78750	85000	79800	82500	---	78000
	---	---	---	---	67500	69250	74950	67000	53500	70000	---	70000
	---	---	---	78000	79040	70042	80800	79800	73714	82833	---	75949
	---	---	---	---	11828	22672	8449	13755	15539	13003	---	16204
	0	0	0	1	5	12	6	5	7	3	0	39
68-99	---	---	---	---	---	92000	90000	---	92000	---	---	90000
	---	---	---	67000	85000	79000	85000	90000	81000	---	---	81000
	---	---	---	---	76500	73400	---	72000	---	---	---	74700
	---	---	---	67000	85000	82500	82800	90000	81757	---	---	81924
	---	---	---	---	9147	8516	---	9052	---	---	---	8620
	0	0	0	1	1	4	3	1	7	0	0	17
≥100	---	---	---	---	---	87450	94100	98000	95800	---	---	94100
	---	---	50000	---	88000	78600	85600	70000	94800	---	---	85600
	---	---	---	---	70625	12000	10600	87000	---	---	---	70000
	---	---	50000	---	88000	79563	63967	59533	92533	---	---	74874
	---	---	---	---	10296	45214	44630	4818	---	---	---	25632
	0	0	1	0	1	8	3	3	3	0	0	19
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587
	3	2	274	441	426	392	284	217	195	80	8	2,322

Table 2.4.4

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1986 Survey of ACS Members

YEARS SINCE BS												
TOTAL SUBORDINATES	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 OR MORE	NO RESP	TOTAL
0	---	---	40000	45000	50000	55000	56725	62450	75750	68850	45200	52000- 75th %ile
	21500	34000	38000	40500	45000	49000	49200	52000	58400	52150	32900	44000- 50th %ile
	---	---	36000	37000	39850	44000	42500	45539	47500	44667	26750	38000- 25th %ile
	21500	34000	37943	41799	45600	50173	51075	54449	60432	56295	34950	46903- Mean
	---	---	3268	8639	10536	10757	12481	12156	17647	17389	9819	13064- Std Dev
	1	1	77	89	52	51	42	33	37	22	4	409- Count
1-2	---	---	43000	47000	51000	59875	61900	64000	68500	77200	---	55000
	29000	---	39700	43000	47000	53000	54500	54000	59600	65000	45950	46300
	---	---	38000	40000	42000	45000	48500	47000	50900	55175	---	41000
	29000	---	40215	43842	47394	53322	55226	55642	59521	65804	45950	46885
	---	---	4639	6189	7670	10458	11035	14276	12755	12866	26941	11268
	1	0	139	190	161	108	89	71	47	24	2	832
3-7	---	---	43150	50000	54375	59000	66000	72000	71250	63750	---	58450
	43500	31500	41000	46000	48000	53000	60000	53900	64000	57500	---	49950
	---	---	38850	41000	43000	44000	53000	46500	51650	46250	---	43000
	43500	31500	42436	45582	48875	52508	59502	58737	63488	55132	---	51506
	---	---	8473	7462	8455	9984	11041	18289	14438	12886	---	12458
	1	1	45	113	108	79	47	40	50	16	0	500
8-12	---	---	47300	55950	60000	67000	70500	75000	79050	72600	---	65000
	---	---	42500	51250	55550	60800	60000	63000	75000	70000	42000	58000
	---	---	35000	48000	48000	52000	52725	59925	54500	58000	---	50000
	---	---	42691	51804	53459	60598	62065	66200	68879	66867	42000	58375
	---	---	7550	6980	11022	10950	15203	13094	12452	7788	---	13116
	0	0	11	28	46	51	34	24	14	3	1	212
13-17	---	---	---	54750	70000	73775	76150	85750	83875	---	---	75000
	---	---	40000	50750	63000	64250	60600	82000	63300	52700	---	62350
	---	---	---	47100	57000	59175	50000	61725	47375	---	---	52925
	---	---	40000	50833	61700	66560	62665	77093	61950	52700	---	63727
	---	---	---	6040	12252	9834	17711	12631	19649	---	---	15008
	0	0	1	12	19	20	17	14	10	1	0	94
18-22	---	---	---	55400	68000	77625	65000	82600	90000	86000	---	77000
	---	---	---	54800	63000	61000	64000	74250	78000	70000	---	64000
	---	---	---	51000	55000	55750	54750	64475	60000	47000	---	56450
	---	---	---	53733	61929	64906	62008	73533	75600	67667	---	65311
	---	---	---	2386	11017	13129	8951	8844	15208	19604	---	12365
	0	0	0	3	7	16	13	6	5	3	0	53
23-32	---	---	---	60000	65000	64625	76000	84750	75500	76500	---	70000
	---	---	---	58000	62500	60500	66500	72500	67550	70000	60000	63500
	---	---	---	50200	54000	54000	53250	63500	61750	67000	---	55739
	---	---	---	56067	61200	59868	64521	73232	67350	71400	60000	63631
	---	---	---	5178	7002	9652	13526	12003	8869	5941	---	10612
	0	0	0	3	17	22	14	8	6	5	1	76
33-47	---	---	---	---	71250	78950	86250	80750	85000	---	---	84000
	---	---	---	43000	54750	71000	74500	70500	84000	88200	---	72000
	---	---	---	---	47075	61000	56750	58250	72000	---	---	58750
	---	---	---	43000	59467	70194	71870	70275	79857	88200	---	70424
	---	---	---	---	16674	11066	16514	11446	10931	---	---	14193
	0	0	0	1	6	17	10	8	7	1	0	50
48-67	---	---	---	---	95000	80000	86250	85500	82000	89250	---	82250
	---	---	---	---	70000	72500	77000	80000	79800	77000	---	78000
	---	---	---	---	65000	69250	73500	74000	53500	69000	---	70000
	---	---	---	---	75714	68667	78078	79222	73400	78700	---	75041
	---	---	---	---	15703	21385	11622	10121	15276	11256	---	15230
	0	0	0	0	7	12	9	9	7	5	0	49
68-99	---	---	---	---	---	80000	88750	---	85000	---	---	85000
	---	---	---	---	---	84100	76000	82750	90002	80500	---	80250
	---	---	---	---	---	---	50000	33025	---	73950	---	71375
	---	---	---	---	---	84100	68257	68175	90000	80663	---	75182
	---	---	---	---	---	1273	19178	34204	---	7472	---	18593
	0	0	0	0	2	7	4	1	8	0	0	28
>=100	---	---	---	---	---	92000	89950	98000	95550	---	---	93150
	---	---	---	---	---	72500	79200	73400	70000	93400	---	79200
	---	---	50000	---	---	---	71250	37250	10600	88250	---	68500
	---	---	50000	72500	88000	81389	65560	59533	92400	---	---	75660
	---	---	---	7778	---	---	11080	32277	44630	3943	---	23074
	0	0	1	2	1	9	5	3	4	0	0	25
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587
	3	2	274	441	426	392	284	217	195	80	8	2,322

Table 2.4.5.

SALARIES OF FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY
according to TYPE OF INDUSTRY and YEARS SINCE BS
1986 Survey of ACS Members

TYPE OF INDUSTRY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50+ Exp	
Agricultural chemicals	---	---	40000	48000	55000	75000	62000	72250	80500	86500	---	60000
	---	---	38400	43000	50000	65000	58000	61500	62500	58000	---	50000
	---	---	37700	39500	46000	49700	50000	51850	52500	50850	---	42250
	---	---	38830	43783	50370	62999	56876	61806	61713	59302	---	52216
	---	---	2407	5821	8542	14074	2941	14152	9688	11449	---	12655
	0	0	23	41	46	27	21	22	8	9	0	187
Coatings	---	---	40000	53679	52250	75475	67000	78167	88325	---	---	57000
	---	---	38500	44000	48500	57200	54000	51600	52100	75778	---	48000
	---	---	38000	41250	42550	54525	46750	46509	43500	---	---	40500
	---	---	37376	46618	47586	60224	55749	54417	55960	75778	---	50471
	---	---	8113	8939	5657	10801	12274	19517	16438	5185	---	13493
	0	0	17	21	22	10	13	12	10	7	0	187
Food	---	---	41000	46800	53125	54500	65750	81000	89550	---	---	54625
	---	---	39490	44750	49200	50000	55250	55000	66350	45000	26000	48000
	---	---	29375	35500	41550	46800	44250	51000	53125	---	---	41000
	---	---	38213	42708	49968	50233	54875	61429	64675	45000	26000	50596
	---	---	6975	7474	11107	7150	13655	25825	19784	---	---	15124
	0	0	6	12	8	15	12	7	4	1	1	66
Metals	---	---	37500	45000	56950	54750	78175	65500	78500	---	---	56450
	---	---	36800	36000	49000	49000	46550	56078	62300	---	---	48000
	---	---	38000	34300	44975	44550	36525	48750	42775	---	---	38425
	---	---	38747	39111	50830	49425	53750	59082	61025	---	---	49971
	---	---	751	7343	8630	6758	23089	10769	14831	---	---	12987
	0	0	3	9	10	8	4	0	4	0	0	46
Paper	---	---	41000	37000	---	78000	58000	80750	92000	---	---	64500
	---	---	38000	36700	50500	64500	55000	62000	69000	---	---	50000
	---	---	37100	29000	---	49000	50000	43000	47875	---	---	40500
	---	---	39143	34733	50500	62214	54843	61900	64675	---	---	54497
	---	---	2861	4535	8910	14770	5423	27025	24743	12728	---	16867
	0	0	7	3	2	7	5	4	2	0	0	37
Petroleum	---	---	45100	54000	65000	77200	71000	83000	77750	72475	---	71750
	---	---	34000	41000	49850	53500	67000	68500	70800	64500	65000	60000
	---	---	39500	45000	44225	61300	61000	71750	48350	60750	---	47575
	---	---	42526	50161	54991	68478	67874	78000	71161	68575	68000	56164
	---	---	5977	7272	12470	10513	13493	11144	11072	6136	---	15077
	0	1	23	42	34	29	23	17	18	4	1	192
Pharmaceuticals	---	---	42150	47700	60000	67000	72150	67250	78500	75300	---	62000
	21500	---	40000	43000	50000	57400	61300	57500	72500	69000	51000	50000
	---	---	38000	41900	43000	50000	50000	49700	60500	53150	---	42900
	21500	---	39300	45244	51750	59046	60810	58500	70118	65768	51000	51365
	---	---	3450	6752	14802	14858	17237	17355	15547	14633	12728	15762
	3	0	61	77	76	74	49	26	28	17	2	411
Rubber	---	---	40025	41250	---	70000	62500	66500	85400	---	---	60000
	---	---	37000	39500	45250	57000	54300	52350	48000	71200	---	45500
	---	---	38000	29000	---	43500	47150	47775	51600	---	---	39500
	---	---	38127	40000	45250	54850	54650	55967	64400	71200	---	51170
	---	---	3047	1265	354	15188	8195	8950	17004	24042	---	18185
	0	0	6	6	2	4	4	6	3	2	0	33
Soaps	---	---	38550	43900	60500	63250	61625	48750	---	---	---	56500
	---	---	37800	41450	44250	57000	70750	47500	58500	53111	---	47300
	---	---	39425	39550	34800	43000	44500	43000	---	---	---	37950
	---	---	37510	42408	49340	55500	46125	44750	56500	53111	---	48218
	---	---	1929	4612	15911	14350	18958	3594	2121	26713	---	13602
	0	0	10	12	10	10	4	4	2	2	0	54
Biochemical products	---	---	42000	51000	57125	54000	59500	60200	58500	88250	---	53625
	---	---	38000	42000	49500	47700	50100	55100	52300	58000	48000	46150
	---	---	36500	37500	43100	36000	47500	50000	50250	---	---	40000
	---	---	39746	43275	50097	47342	54233	55100	53440	65500	48000	47518
	---	---	6238	6682	11407	12685	9713	5889	4685	21455	---	11458
	0	0	19	29	30	13	9	4	5	4	1	124
Electronics	---	---	47250	52000	51875	62250	70000	83750	76850	73350	---	58900
	---	---	43000	46000	44600	58000	54400	49500	61500	64000	---	50000
	---	---	40525	49000	42925	48000	46000	56500	51100	47800	---	43900
	---	---	43644	48461	47581	57274	59013	70175	63800	61300	---	53350
	---	---	4312	6590	6790	12314	15051	13213	17421	12893	---	12077
	0	0	18	33	16	17	15	8	9	5	0	121
Other chemicals	---	---	42700	45200	55000	64000	65500	78500	81000	75250	---	60000
	28000	---	39000	43400	48500	55000	54600	60000	61300	54000	---	49650
	---	---	37500	40000	43400	48000	48000	49000	46625	46425	---	42925
	25000	---	39934	43053	50175	56904	40089	61249	64114	58025	---	51240
	---	---	3429	5003	9396	12313	14831	18672	16774	18516	---	16563
	1	0	35	83	79	91	54	43	42	16	0	444
Other products	---	---	43000	49925	58375	61000	68000	67475	75000	72750	---	62475
	43500	---	39800	44200	48000	54000	57500	59000	61500	64750	31850	51150
	---	---	37150	38500	42250	45300	46000	48750	51500	51500	---	43000
	---	---	40012	43574	50388	54097	59115	58844	64535	63071	31850	51580
	---	---	4784	7128	10367	10372	13314	13432	15143	14249	7000	13696
	1	0	34	50	64	67	53	42	49	14	2	376
Non-efg	---	---	43900	53500	56400	60950	58950	73500	83500	---	---	60000
	---	---	41900	40450	47000	48700	50000	46000	61000	58500	29000	49971
	---	---	36000	36500	38700	42250	34000	45200	47000	---	---	39075
	---	---	31500	44156	47361	48707	52710	49206	60408	62889	58500	50865
	---	---	15303	14809	12185	13777	16856	18842	20991	31870	---	16293
	0	1	12	23	27	20	16	13	9	2	1	124
TOTAL	43500	---	42075	48000	56800	68000	67375	74500	78500	72478	57000	61000
	29000	32750	29600	44000	49150	54100	58000	60000	64000	65500	39400	50000
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000
	31333	32750	40076	44850	50538	57323	59027	61388	65033	62476	41713	52979
	11184	1748	5510	7819	11126	13180	14609	16641	15793	15393	14966	14567
	3	2	274	441	426	392	284	217	195	80	8	2,322

Table 2.4.6

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY
according to GEOGRAPHIC REGION and YEARS SINCE BS
1986 Survey of ACS Members

GEOGRAPHIC REGION	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40		
Pacific	---	---	44750	51000	59300	70000	70000	80625	81250	81000	---	63000 - 75th %ile
	---	31500	40250	42500	51000	59300	58000	66250	69500	55000	60000	51500 - 50th %ile
	---	---	36800	39050	45700	50000	51000	53000	50000	50000	---	44000 - 25th %ile
	---	31500	42982	45469	52755	59430	59248	66807	65786	65171	60000	54685 - Mean
	---	---	11786	12128	10106	14844	15084	18087	17521	18165	---	15726 - Std Dev
	0	1	22	49	60	27	31	22	21	7	1	241 - Count
Mountain	---	---	47025	44950	47000	72700	52625	---	57750	68000	---	55050
	---	---	42700	40200	44900	55200	47500	57039	52300	64000	27950	47500
	---	---	40475	31750	32900	49000	29250	---	49500	51300	---	40150
	---	---	43400	39667	43529	60178	43125	57039	53360	61100	27950	48821
	---	---	3479	9166	10980	18212	13219	15501	4952	8720	1485	14403
	0	0	4	6	7	9	4	2	5	3	2	42
W.N. Central	---	---	42500	48500	55000	65500	60000	93500	61325	---	---	58050
	---	---	39800	40500	47000	56450	56500	62000	52500	---	---	48000
	---	---	37475	37000	41500	49950	43575	45000	48125	---	---	40750
	---	---	39488	42761	49421	57973	55181	65786	53525	---	---	50619
	---	---	3944	6838	10207	11509	11955	20868	9936	---	---	12564
	0	0	16	23	29	26	16	7	8	0	0	125
W.S. Central	---	---	40200	52400	57625	75375	73750	78222	76000	70000	---	66250
	---	34000	38000	46700	49000	61100	62200	69500	67000	60000	---	54000
	---	---	35000	42000	40000	53000	53500	54500	61500	45222	---	43875
	---	34000	38133	46940	50070	62461	62517	66133	66946	58407	---	55769
	---	---	3249	6272	11862	12464	14882	16390	14135	12466	---	14896
	0	1	15	35	30	38	24	19	13	3	0	178
E.N. Central	43500	---	41000	47625	55875	60950	67500	70000	72475	78000	---	58200
	29000	---	38900	43000	49900	53750	55500	55000	59650	65000	26000	48000
	21500	---	37000	40000	43475	44175	49125	48000	50250	51300	---	41200
	31333	---	39273	43755	50295	55050	58799	58498	60890	64185	26000	51502
	11184	---	3721	7142	8946	13262	13654	16620	16346	15458	---	13917
	3	0	59	106	80	80	68	47	40	19	1	593
E.S. Central	---	---	39450	---	58200	61800	73400	77750	90750	76000	---	64000
	---	---	38150	46250	46300	53000	44000	62500	71000	64000	---	51650
	---	---	34075	---	42700	47500	27000	51750	49000	54025	---	44000
	---	---	37225	46250	52922	55846	48133	64000	70250	64675	---	55446
	---	---	2980	3182	17040	14805	23475	13736	21624	11458	---	16636
	0	0	4	2	9	14	3	4	4	4	0	44
Mid-Atlantic	---	---	43100	50000	55725	62750	70000	79500	79400	72950	---	60000
	---	---	40500	44300	49200	55000	59250	60900	68500	63000	65000	50000
	---	---	38000	40250	43000	47000	48500	50000	55300	50000	---	42000
	---	---	41036	45549	49755	55619	59670	62069	67768	62914	65000	52704
	---	---	4801	7125	11750	13130	14028	18375	14983	15295	---	14406
	0	0	85	145	120	188	70	55	53	25	1	662
So. Atlantic	---	---	41475	50000	54000	64200	65000	69000	80000	78750	---	60825
	---	---	38450	43600	47500	57950	58000	60300	62700	61400	48000	50000
	---	---	37075	40000	42000	48825	46000	50000	52300	44500	---	42000
	---	---	38757	44818	48819	57170	57498	60551	69919	59930	48000	52809
	---	---	4922	6498	10066	12284	16910	14419	16404	20760	---	14923
	0	0	46	43	47	54	39	37	31	10	1	398
New England	---	---	43000	52500	62100	69000	68250	60000	84375	70000	---	63000
	---	---	40000	44500	50250	59000	60000	50200	76000	60000	39400	53000
	---	---	37250	38900	43000	53000	52750	47800	53375	50000	---	43000
	---	---	39940	45212	53814	59735	62432	54689	69975	59222	39400	54737
	---	---	5244	8819	14001	12048	14857	11993	15917	14757	3677	14846
	0	0	29	26	36	31	22	19	16	9	2	181
No Response	---	---	45000	46500	66000	72000	74000	75500	76075	---	---	68000
	---	---	42000	40750	48100	65000	63500	71000	62150	---	---	56100
	---	---	35000	35750	43000	51500	49000	49850	59250	---	---	43000
	---	---	40667	41417	52800	62480	62229	64340	65825	---	---	55892
	---	---	5132	5953	11376	10621	11499	16309	9726	---	---	13766
	0	0	3	6	8	5	7	5	4	0	0	38
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000
	29000	32750	39800	44000	49150	56130	58000	60000	64000	63500	39400	50000
	21500	---	37500	40000	43350	48000	49950	52000	51075	27425	---	42000
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979
	11184	1768	5510	7819	11126	13160	14609	16641	16793	15393	14968	14587
	3	2	274	441	426	392	284	217	195	80	8	2,322

Table J.1.1

SALARIES of FULL-TIME EMPLOYED U.S. CHEMISTS IN GOVERNMENT
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+		
Mgt-RAO	---	---	---	---	---	---	76200	---	---	---	---	59750 = 75th %ile
	---	---	24000	40100	50300	50000	50000	---	---	---	---	46950 = 50th %ile
	---	---	---	---	---	---	43900	---	---	---	---	38225 = 25th %ile
	---	---	24000	40100	50300	50000	56700	---	---	---	---	48100 = Mean
	---	---	---	---	17961	---	17161	---	---	---	---	15998 = Std Dev
	0	0	1	1	2	1	3	0	0	0	0	9 = Count
Basic Research	---	---	---	38950	39500	---	---	43700	---	---	---	40000
	---	22200	30000	34200	34900	39500	38050	38000	29000	---	---	34800
	---	---	---	29325	26625	---	---	32900	---	---	---	29500
	---	22200	30000	34125	33675	39500	38050	38240	29000	---	---	34329
	---	5940	---	4957	7123	13435	4313	6072	---	---	---	7445
	0	2	1	4	4	2	2	5	1	0	0	21
Applied Research	---	---	35850	38900	---	45200	53500	47000	60000	---	---	45650
	---	21000	27400	36200	34050	41000	48200	40700	57000	34000	---	38000
	---	---	24500	24800	---	36200	41000	32400	54000	---	---	29200
	---	21000	29620	32720	34950	40800	47567	40933	57000	34000	---	38115
	---	---	6098	7342	6010	4503	6274	7323	3090	---	---	10705
	0	1	5	5	2	3	3	3	3	1	0	26
General Mgt	---	20800	35000	46000	44000	52050	51800	---	64250	54000	---	48100
	---	20100	28750	35000	37450	43550	41000	43600	45950	48000	---	38000
	---	19250	23875	29000	32550	33750	38600	---	38750	28600	---	29000
	---	20950	29500	36567	39050	43183	44160	43600	49650	43533	---	38202
	---	823	6017	9389	10716	8926	6956	6505	13844	13276	---	11524
	0	4	6	9	6	6	5	2	4	3	0	45
Marketing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	57000	---	---	---	57000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	57000	---	---	---	57000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	1	0	0	0	1
Prod & QC	---	---	31550	27500	---	40875	---	---	---	---	---	33600
	---	21350	28200	25250	35700	28300	41830	---	---	52000	---	28100
	---	---	22500	20375	---	23900	---	---	---	---	---	24500
	---	21350	27550	24375	35700	31025	41800	---	---	42900	---	30079
	---	6293	4703	3860	5233	9711	11597	---	---	---	---	8779
	0	2	4	4	2	4	2	0	0	1	0	19
Forensics	---	23000	24250	31800	40150	38950	47500	---	43550	---	---	35000
	21000	18900	20000	30000	37000	29000	41000	36150	31800	---	---	26000
	---	18100	18750	24400	29950	26000	41000	---	28150	---	---	20000
	21000	19791	22238	29827	35440	31780	43167	36150	34500	---	---	27651
	---	3049	5682	6247	6288	6693	3753	2616	6542	---	---	8670
	1	11	13	11	5	5	3	2	4	0	0	55
Writing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	35000	---	---	---	---	---	---	---	---	35000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	35000	---	---	---	---	---	---	---	---	35000
	---	---	4243	---	---	---	---	---	---	---	---	4243
	0	0	2	0	0	0	0	0	0	0	0	2
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	53300
	---	19700	---	---	53300	---	---	---	27000	---	---	27000
	---	---	---	---	---	---	---	---	---	---	---	19700
	---	19700	---	---	53300	---	---	---	27000	---	---	33333
	---	---	---	---	---	---	---	---	---	---	---	17673
	0	1	0	0	1	0	0	0	1	0	0	3
Computer	---	---	---	---	---	---	---	---	---	---	---	---
	---	23650	---	---	---	---	---	---	---	---	---	23650
	---	---	---	---	---	---	---	---	---	---	---	---
	---	23650	---	---	---	---	---	---	---	---	---	23650
	---	8697	---	---	---	---	---	---	---	---	---	8697
	0	2	0	0	0	0	0	0	0	0	0	2
Consulting	---	---	---	---	---	---	---	---	---	---	---	31900
	---	15000	21000	25000	---	27000	---	---	36000	---	---	25000
	---	---	---	---	---	---	---	---	---	---	---	39000
	---	15000	21000	25000	---	27000	---	---	36000	---	---	25200
	---	---	---	---	---	---	---	---	---	---	---	7563
	0	1	1	1	0	1	0	0	1	0	0	5
Other	---	27200	32000	37000	37300	38000	---	80800	---	---	---	34925
	---	23500	26500	31000	31000	37900	21300	48000	26900	33000	---	28900
	---	16500	24600	23300	29800	28000	---	26525	---	---	---	24625
	---	22400	26400	30320	32700	34633	21300	51775	26900	33000	---	31975
	---	5434	6507	7065	4929	5745	---	28708	---	---	---	14019
	0	3	7	5	3	3	1	4	1	1	0	28
TOTAL	---	23300	31900	36800	39700	45050	50000	47800	54000	49500	---	40000
	21000	19700	25750	30500	37000	37900	41100	39000	38000	38000	---	32000
	---	18000	22250	25000	31500	28300	40000	33300	28600	31900	---	24600
	21000	20563	26440	31788	37508	37024	44479	43229	41767	49933	---	33557
	---	3822	6353	7594	9296	9158	10951	14819	13636	9787	---	11784
	1	27	40	40	25	25	19	17	15	6	0	215

Table 3.1.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN GOVERNMENT
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44			
Mgt-R&D	---	---	---	---	---	60000	---	53000	---	---	---	53000	- 75th S-tile
	---	---	---	36000	34700	49000	54000	53000	---	40500	---	52100	- 50th S-tile
	---	---	---	---	---	44000	---	52100	---	---	---	41375	- 25th S-tile
	---	---	---	36000	34700	51000	54000	52640	---	40500	---	48450	- Mean
	---	---	---	---	---	8185	---	805	---	---	---	7874	- Std Dev
	0	0	0	1	1	3	1	5	0	1	0	12	- Count
Basic Research	---	---	32000	---	---	42200	43475	57000	47950	---	---	44200	
	---	25650	14900	19950	18350	16000	41150	45200	44550	---	---	41000	
	---	---	13400	---	---	34800	41000	40000	41750	---	---	33700	
	---	25650	20100	19950	18350	17667	41875	47400	44750	---	---	37822	
	---	919	10333	7425	6576	3972	1556	8711	3264	---	---	10261	
	0	2	3	2	2	3	4	1	4	0	0	23	
Applied Research	---	---	33500	42200	---	42500	60100	---	---	---	---	43500	
	---	29800	28000	38000	42700	39500	46700	19750	50500	---	30700	35400	
	---	---	23850	31100	---	35575	34500	---	---	---	---	31925	
	---	29800	28540	36920	42700	39283	47100	19750	50500	---	30700	37064	
	---	---	5754	5905	10889	3621	14073	18031	2121	---	---	11044	
	0	1	5	5	2	6	4	2	2	0	1	28	
General Mgt	---	---	---	---	42600	48775	---	---	67500	---	---	50000	
	---	10000	26500	32350	32000	39000	41000	63500	58000	47150	---	41500	
	---	---	---	---	26000	35250	---	---	44000	---	---	32000	
	---	10000	26500	32350	33840	40783	41000	63500	56200	47150	---	43054	
	---	---	---	2333	10263	6753	12728	6364	11883	1202	---	13107	
	0	1	1	2	5	6	2	2	5	2	0	26	
Marketing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Prod & QC	---	---	28000	---	---	33500	---	---	---	---	---	29375	
	---	---	26300	26500	---	28000	---	39000	20000	---	---	26700	
	---	---	24000	---	---	25400	---	---	---	---	---	25500	
	---	---	26100	26500	---	29100	---	39000	20000	---	---	27820	
	---	---	2007	707	---	3724	---	---	---	---	---	5179	
	0	0	1	2	0	3	0	1	1	0	0	10	
Forensics	---	---	32000	37000	35050	37950	---	---	---	---	---	36500	
	---	22300	26400	27000	31500	30000	---	57000	53000	---	---	31000	
	---	---	24000	26000	29000	24900	---	---	---	---	---	26200	
	---	22300	27467	30829	32060	31140	---	57000	53000	---	---	33597	
	---	---	4105	6978	4822	6744	---	15556	---	---	---	4637	
	0	1	3	7	10	5	0	1	2	0	0	29	
Writing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	29000	---	---	---	19000	---	---	---	34000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	29000	---	---	---	39000	---	---	---	34000	
	---	---	---	---	---	---	---	---	---	---	---	7071	
	0	0	0	1	0	0	0	1	0	0	0	2	
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	61000	---	---	61000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	61000	---	---	61000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	1	0	0	1	
Computer	---	---	---	---	---	---	---	---	---	---	---	45100	
	---	---	36050	---	35800	47600	---	---	---	---	---	36700	
	---	---	---	---	---	---	---	---	---	---	---	34625	
	---	---	36050	---	35800	47600	---	---	---	---	---	38875	
	---	---	2192	---	---	---	---	---	---	---	---	5954	
	0	0	2	0	1	1	0	0	0	0	0	4	
Consulting	---	---	---	35800	---	---	---	---	---	---	---	35800	
	---	---	---	25000	---	---	---	---	---	---	---	25000	
	---	---	---	23900	---	---	---	---	---	---	---	23900	
	---	---	---	28233	---	---	---	---	---	---	---	28233	
	---	---	---	6576	---	---	---	---	---	---	---	6576	
	0	0	0	1	0	0	0	0	0	0	0	3	
Other	---	---	---	---	---	---	---	---	51333	---	---	43525	
	---	---	24000	34900	39650	34300	30700	27300	31600	36500	---	31150	
	---	---	---	---	---	---	---	---	18000	---	---	25000	
	---	---	24000	34900	39650	34300	30700	27300	31644	36500	---	33095	
	---	---	1414	11455	7707	---	---	---	16760	16263	---	10159	
	0	0	2	2	2	1	1	1	3	2	0	14	
TOTAL	---	29900	32000	37500	35800	43550	53000	56000	58750	48000	---	44350	
	---	26300	26500	32700	34700	36500	41150	52100	47450	46300	30700	35500	
	---	23600	24000	26900	30000	33700	34500	39000	41750	32750	---	29000	
	---	26680	26858	32700	34857	38282	43550	45888	47163	41560	30700	37362	
	---	3275	6386	6771	7165	8162	10056	14845	14152	9757	---	11471	
	0	5	19	25	23	28	12	16	18	5	1	152	

Table 3.1.3

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS in GOVERNMENT
according to WORK FUNCTION and YEARS SINCE BS
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	No Resp	
Mgt-R&D	---	---	---	55000	56500	57950	61100	62600	68500	---	---	64800 + 25th E-tile
	---	---	---	41000	51000	54000	56500	60900	67000	68000	---	56500 + 50th E-tile
	---	---	---	29000	45000	46150	51900	43200	61350	---	---	50000 + 25th E-tile
	---	---	---	41667	51256	52952	57938	56136	65208	68000	---	55953 + Mean
	---	---	---	13913	6795	6573	7791	12560	5092	---	---	9519 + 25d Dev
	0	0	0	3	9	25	13	11	13	1	0	75 + Count
Basic Research	---	---	38000	45750	50150	52000	56100	55000	65500	64500	---	54850
	---	---	35000	40250	42600	45500	48700	50000	57800	58500	28000	47000
	---	---	11600	14150	16650	19000	43500	45000	53350	47750	---	30000
	---	---	35593	19765	43752	45862	50632	52384	57315	54350	28000	50756
	---	---	5934	7765	8300	8854	8580	10953	11684	11222	---	1119
	0	0	15	20	25	29	19	31	13	12	1	165
Applied Research	---	---	44975	42100	47650	51000	48000	56250	62000	69475	---	52000
	---	28500	32850	41300	42600	45000	39500	50400	54900	61950	---	45000
	---	---	25750	37600	34550	39500	37900	46425	47025	37250	---	38000
	---	28500	35350	40657	41277	48010	42830	51579	54136	56225	---	45632
	---	---	9688	2756	8584	12225	7371	8302	9149	17911	---	11069
	0	1	6	7	13	10	10	14	8	4	0	75
General Mgt	---	---	---	---	46375	58850	52250	56525	65500	55000	---	55350
	---	---	44000	47000	41350	51000	46050	50000	52000	51000	---	47050
	---	---	---	---	33700	45000	40350	39625	39000	35000	---	40000
	---	---	44000	47000	40467	52333	87317	52050	51760	47667	---	48726
	---	---	---	---	8162	9399	8752	14642	14430	11015	---	10911
	0	0	1	1	6	9	12	6	10	1	0	46
Marketing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Prod & QC	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	42900	---	49350	---	---	38000	---	42500
	---	---	---	---	---	---	---	---	---	---	---	38000
	---	---	---	---	42900	---	49350	---	---	38000	---	44675
	---	---	---	---	---	---	5980	---	---	---	---	7561
	0	0	0	0	1	0	2	0	0	1	0	4
Forensics	---	---	---	---	37350	44000	---	---	---	---	---	45000
	---	---	29000	---	38000	39000	49500	44000	25000	---	---	36500
	---	---	---	---	25750	29000	---	---	---	---	---	28375
	---	---	28000	---	31240	38116	49500	44000	25000	---	---	36533
	---	---	---	---	7339	10944	2121	9192	---	---	---	12057
	0	0	1	0	5	7	2	2	1	0	0	16
Writing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	45000	---	---	---	---	45000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	45000	---	---	---	---	45000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	1	0	0	0	0	1
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	26000	---	35000	---	---	---	---	---	---	39500
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	26000	---	35000	---	---	---	---	---	---	39500
	---	---	---	---	---	---	---	---	---	---	---	6364
	0	0	1	0	1	0	0	0	0	0	0	2
Computer	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	28000	42000	48000	---	39000	57000	---	---	52900
	---	---	---	---	---	---	---	---	---	---	---	44000
	---	---	---	28000	42000	48000	---	39000	57000	---	---	36900
	---	---	---	---	8485	5657	---	---	---	---	---	41429
	0	0	0	1	2	2	0	1	1	0	0	7
Consulting	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	44400	---	---	37600	---	---	---	18700	---	38700
	---	---	---	---	---	---	---	---	---	---	---	37600
	---	---	44400	---	---	37600	---	---	---	18700	---	40233
	---	---	---	---	---	---	---	---	---	---	---	3650
	0	0	1	0	0	1	0	0	0	1	0	3
Other	---	---	---	---	49400	54000	67050	---	56000	---	---	57300
	---	---	---	---	44500	48000	51500	39000	48900	54000	---	48000
	---	---	---	---	44500	43150	40250	---	47000	---	---	42850
	---	---	---	---	46133	48460	52750	39000	50633	54000	---	49886
	---	---	---	---	28229	6277	13190	---	4744	---	---	9187
	0	0	0	0	3	5	8	1	3	1	0	21
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	22200	---	---	---	---	---	---	---	---	22200
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	22200	---	---	---	---	---	---	---	---	22200
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	1	0	0	0	0	0	0	0	0	1
TOTAL	---	---	42825	45000	50000	55950	56500	60675	67000	66000	---	56000
	---	28500	14350	40750	42600	48000	49100	50650	57800	54000	28000	47550
	---	---	28250	36600	35100	41250	42000	45000	48450	38700	---	40000
	---	28500	35046	39987	42925	40268	50388	52173	56682	52991	28000	48006
	---	---	7744	7482	8868	9457	9686	10881	11913	12422	---	11484
	0	1	28	32	65	88	67	64	49	23	1	418

Table 4.1.1

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN COLLEGE/UNIVERSITY
according to ACADEMIC RANK and TYPE OF INSTITUTION
1986 Survey of ACS Members

SCHOOL	ACADEMIC RANK							TOTAL	
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp.		
Medical or prof. School	73600	48945	39800	39000	35675	56894	44600	56000	- 75th %ile
	60000	41000	34000	32800	23000	41067	40000	42000	- 50th %ile
	50000	39000	30000	27000	20000	31900	40000	33900	- 25th %ile
	61613	42383	35971	33305	26983	45314	41533	46407	- Mean
	15595	7643	11936	7820	9235	17405	2656	17764	- Std Dev
	56	25	23	19	12	13	3	151	- Count
Associate	46139	47167	34283	---	---	48278	---	46483	
	39356	36667	29667	37584	---	43695	50950	39111	
	34833	31961	27409	---	---	39028	---	33703	
	40882	39187	29799	37584	---	43627	50950	40173	
	9880	8958	4844	23767	---	7295	6152	9626	
	16	14	8	2	0	20	2	62	
Bachelors	48889	39111	30556	27684	---	24444	---	43542	
	42717	34283	27500	26278	22000	23222	40000	36667	
	36667	30770	25667	24933	---	13200	---	29333	
	43670	34864	28014	26794	22000	20289	40000	37572	
	9616	6630	3779	3402	---	6169	28284	10379	
	164	88	63	9	1	3	2	330	
Masters	52830	42167	32756	36728	---	---	---	50028	
	47728	37033	29333	26000	32350	---	69500	43328	
	42778	33000	27011	24444	---	---	---	34806	
	48043	38808	29612	29669	32350	---	69500	42818	
	7375	8886	3764	8323	21708	---	---	10565	
	100	33	25	5	2	0	1	166	
Doctorate	67222	46239	35458	35000	36000	---	57250	59945	
	57444	40333	32395	30556	29000	42000	47900	47667	
	49622	36667	29731	27300	22000	---	34600	36361	
	58881	41220	32901	32375	29148	42000	46258	48747	
	14085	7128	4576	7064	8682	---	13459	16523	
	363	113	86	31	47	1	12	653	
TOTAL	62333	43511	34000	35625	36000	48889	57325	53289	
	51333	38500	30556	29667	28200	41555	47200	42655	
	43633	33000	27289	25917	20750	33306	40000	33336	
	53569	38882	31221	31835	28717	42283	46555	44667	
	14297	7866	6181	7747	9047	13259	13712	15204	
	699	273	205	66	62	37	20	1,362	

Table 4.1.2

SALARIES of FULL-TIME Ph.D. ACADEMIC CHEMISTS
according to ACADEMIC RANK and GEOGRAPHIC REGION
1986 Survey of ACS Members

GEOGRAPHIC REGION	ACADEMIC RANK							TOTAL
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp	
Pacific	77391	50000	42778	54389	45700	58667	---	67466 - 90th %-ile
	53778	37278	34711	35500	30500	45222	44100	46444 - 50th %-ile
	40547	29297	22150	---	19150	---	---	27720 - 10th %-ile
	55407	39899	33160	35835	30783	47191	46550	46899 - Mean
	14203	8526	6660	10830	9652	5219	7885	15085 - Std Dev
	75	22	14	9	12	9	4	145 - Count
Mountain	67000	47300	36147	---	---	---	---	58667
	48889	38945	29333	30556	25000	37750	28000	40944
	37155	28583	24666	---	---	---	---	27556
	50364	38231	29985	29419	30233	37311	28000	42253
	10726	6055	4017	3974	15526	3832	---	12451
	39	12	13	3	3	4	1	75
W.N. Central	72367	40272	35873	---	---	---	---	65200
	47055	33306	31067	26523	24000	44978	48400	36667
	34564	27250	23895	---	---	---	---	25226
	50803	34209	31119	28408	28500	46322	48400	41674
	15728	5259	10783	6002	11930	12490	---	15675
	62	24	24	8	4	4	1	127
W.S. Central	77222	45900	39800	---	---	---	---	65322
	51000	39478	31778	25972	28400	39111	40000	40333
	30778	28655	27500	---	---	---	---	28142
	52821	38651	32279	32731	27680	40519	40000	44226
	16098	6358	3727	12627	6076	4669	---	15210
	64	26	19	6	5	6	1	127
E.N. Central	73013	47099	42850	45900	---	---	---	67222
	47667	37945	30189	31389	26600	32306	40400	41600
	37889	30532	26168	23433	---	---	---	27700
	51855	39497	32041	32430	26025	41989	40400	44566
	14968	9313	6158	6998	6320	23541	10748	15466
	125	38	32	12	8	6	2	223
E.S. Central	62560	49600	---	---	---	---	---	60000
	47000	35444	28356	26500	---	45834	46750	39111
	35933	28211	---	---	---	---	---	26889
	49147	37287	29511	28778	---	45834	46750	42657
	11716	8266	5466	5962	---	18149	32173	12895
	47	27	8	5	0	2	2	91
Mid-Atlantic	70584	51370	38231	---	43740	---	---	67222
	52278	40267	30566	27500	29167	---	58000	44000
	40289	30312	25667	---	22690	---	---	27000
	54608	40591	31213	30764	30761	---	58000	45142
	13062	8003	5532	8070	7301	---	4243	14672
	114	48	43	8	12	0	2	227
So. Atlantic	73333	48498	37267	---	39140	---	---	65924
	55000	39111	29972	32800	22000	44000	40000	42778
	40516	30605	22620	---	10800	---	---	26771
	55831	39088	30213	32075	26431	38842	40000	45060
	13359	6947	5406	3413	11091	19887	20000	15701
	112	53	36	5	13	5	3	227
New England	78678	52849	39111	46000	---	---	---	69911
	59244	41006	29972	30000	32000	24300	47800	46039
	42800	26449	26472	---	---	---	---	28600
	58238	40845	31122	33427	29400	24300	54300	46935
	14619	9182	3967	6360	9044	---	12312	16476
	50	22	14	9	5	1	3	104
No Response	86534	---	---	---	---	---	---	73700
	58667	28111	29639	26278	---	---	55300	54389
	16000	---	---	---	---	---	---	21395
	55657	28111	29639	26278	---	---	55300	48824
	20054	---	4753	---	---	---	---	20450
	11	1	2	1	0	0	1	16
TOTAL	72800	48889	37522	44385	40560	58667	67750	66000
	51333	38500	30556	29667	28200	41555	47200	42655
	37889	30091	25000	24311	18000	24415	24400	27153
	53569	38882	31221	31835	28717	42283	46555	44667
	14297	7866	6181	7747	9047	13259	13712	15204
	699	273	205	66	62	37	20	1,362

Table 4.1.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ACADEMIC CHEMISTS
according to YEARS SINCE BS and ACADEMIC RANK
1986 Survey of ACS Members

ACADEMIC RANK	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40		
Full Professor	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333 - 75th %ile
	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333 - 50th %ile
	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633 - 25th %ile
	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569 - Mean
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297 - Std Dev
	0	0	0	1	40	161	153	154	116	73	1	699 - Count
Associate Professor	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866
	0	0	0	29	74	83	36	30	15	6	0	273
Assistant Professor	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181
	0	0	50	84	43	17	5	2	0	4	0	205
Instructor	---	---	34333	34000	33767	39000	40950	---	---	---	---	35625
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	29667
	---	---	25542	24444	26650	27000	29050	---	---	---	---	25917
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	31835
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	7747
	0	0	8	20	13	11	8	2	1	2	0	66
Research Associate	---	---	26125	36000	37500	35475	---	43950	---	---	---	36000
	---	7000	22400	25200	30000	31250	30000	34400	33900	45000	---	28200
	---	---	19125	20000	22000	23475	---	25750	---	---	---	20750
	---	7000	22767	27426	30512	30380	30000	34700	33900	45000	---	28717
	---	---	4165	9239	8626	7862	---	9700	---	---	---	9047
	0	1	8	19	17	10	1	4	1	1	0	62
Unranked	---	---	---	41000	61417	43267	51150	46139	48889	---	---	48889
	---	---	13200	33611	51823	40028	42778	43389	58667	48889	---	41555
	---	---	---	27172	44703	33500	34250	37000	48889	---	---	33306
	---	---	13200	36011	52647	38460	42715	41815	65185	48889	---	42283
	---	---	---	10406	9191	8313	9124	6296	20354	---	---	13259
	0	0	1	9	4	8	5	6	3	1	0	37
No Response	---	---	---	40000	---	48100	68500	---	58000	---	---	57325
	---	---	40000	32800	46600	43900	61000	64750	55300	44600	---	47200
	---	---	---	28000	---	23000	43600	---	55000	---	---	40000
	---	---	40000	33600	46600	38033	57700	64750	56100	44600	---	46555
	---	---	---	6040	---	12870	12774	6718	1652	---	---	13712
	0	0	1	3	1	6	3	2	3	1	0	20
TOTAL	---	---	32875	36361	42945	49359	55000	60000	62800	73253	---	53289
	---	7000	29167	30556	35444	42778	46444	50056	52555	59945	59400	42655
	---	---	25542	26945	30000	35458	39000	41666	44500	48917	---	33336
	---	7000	29278	31852	37692	43814	47368	51976	54273	60648	59400	44667
	---	---	6133	7672	11600	12227	12631	14594	14927	16576	---	15204
	0	1	68	165	192	296	212	200	139	88	1	1,362

Table 4.1.4

SALARIES of FULL-TIME Ph.D. ACADEMIC CHEMISTS
according to ACADEMIC RANK and WORK FUNCTION
1986 Survey of ACS Members

ACADEMIC WORK FUNCTION	ACADEMIC RANK							TOTAL
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp	
Teaching	50111	40333	30556	31167	---	47055	---	45314 - 75th %ile
	43694	36300	28056	26767	---	42167	---	37889 - 50th %ile
	37917	31656	25728	24933	---	34653	---	30556 - 25th %ile
	44485	36348	28377	30079	---	40654	---	38756 - Mean
	9973	7232	3989	8491	---	10923	---	10582 - Std Dev
	252	133	88	29	0	22	0	524 - Count
Teaching/ research	64778	43542	35261	---	---	---	---	59889
	55000	40400	33000	29000	---	41057	---	48445
	49500	36514	29822	---	---	---	---	37878
	57336	40494	32947	29000	---	41067	---	49039
	10707	6745	4265	2828	---	---	---	13832
	83	26	26	2	0	1	0	138
Research	68853	49000	38122	36000	36000	42000	49800	51925
	59945	43000	33745	31650	28400	32800	43600	40000
	50111	37889	30000	27475	20000	29900	34000	31000
	60600	42569	34110	32092	28642	34857	42240	43097
	14503	7755	5333	6588	9040	7259	9722	16639
	90	43	48	24	55	7	5	272
Research/ administration	92250	---	---	---	---	---	---	65500
	79500	---	---	48000	21000	33000	48400	69000
	71000	---	---	---	---	---	---	44250
	81000	---	---	48000	21000	33000	48400	63640
	12410	---	---	---	---	---	---	25412
	6	0	0	1	1	1	1	10
Administration	73400	52500	---	40250	---	79964	60750	67767
	59000	47450	48500	33850	28250	52372	56650	55450
	50250	35017	---	28425	---	41472	47850	47592
	61785	46218	48500	34175	28250	57936	55775	56864
	13703	14520	7778	6207	3889	21202	7990	15550
	56	10	2	4	2	4	8	86
Teaching/ administration	53334	43722	---	---	---	---	---	51833
	49500	34956	---	---	---	---	---	45811
	42195	28056	---	---	---	---	---	41139
	48787	35578	---	---	---	---	---	46145
	7101	8381	---	---	---	---	---	8960
	16	4	0	0	0	0	0	20
No Response	65000	44550	34100	42225	44775	---	47125	59859
	55867	39844	31778	36750	29000	60133	36400	48000
	48000	35750	28750	28375	21925	---	23000	38000
	57627	40222	32008	35983	31900	60133	37550	49964
	14219	5925	8285	7301	12443	3111	17228	16049
	196	57	41	6	4	2	6	312
TOTAL	62333	43511	34000	35625	36000	48889	57325	53289
	51333	38500	30556	29667	28200	41555	47200	42655
	43633	33000	27289	25917	20750	33306	40000	33336
	53569	38882	31221	31835	28717	42283	46555	44667
	14297	7866	6181	7747	9047	13259	13712	15204
	699	273	205	66	62	37	20	1,362

Table 4.2.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK
according to YEARS SINCE BS AND WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	No Resp.	
Biochemistry	---	---	---	36750	40500	---	45900	---	---	---	---	36000
	---	---	---	31250	29000	35000	29500	30500	---	32000	---	30500
	---	---	---	24861	30000	---	29000	---	---	---	---	27250
	---	---	---	31250	31074	35167	29500	34967	---	32000	---	32420
	---	---	---	6718	7667	5252	9192	9482	---	---	---	6761
Biotechnology	0	0	2	6	3	2	3	0	0	1	0	17
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34000	---	---	---	---	---	---	---	34000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34000	---	---	---	---	---	---	---	34000
General chemistry	0	0	0	1	0	0	0	0	0	0	0	1
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	25667	25384	31167	---	40334	---	44122	---	41690
	---	---	---	---	---	---	---	---	---	---	---	27134
	---	---	---	25667	25384	31167	---	40334	---	44122	---	29620
Analytical chemistry	---	---	---	1957	5185	---	19577	---	---	---	---	12945
	0	0	1	2	2	0	2	0	0	1	0	10
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	40000	31786	---	---	---	---	---	---	33150
	---	---	---	31000	29133	28361	34500	30500	---	---	---	29917
Inorganic chemistry	---	---	---	24444	27475	---	---	---	---	---	---	27625
	---	---	---	31000	33926	29181	34500	30500	---	---	---	31450
	---	---	---	12631	2417	---	---	---	---	---	---	6464
	0	0	1	3	4	1	1	0	0	0	0	10
	---	---	---	---	---	---	---	---	---	---	---	---
Organic chemistry	---	---	---	28620	49500	---	31778	---	---	---	---	51250
	---	---	---	---	---	---	---	---	---	---	---	38889
	---	---	---	28620	49500	---	31778	---	---	---	---	29145
	---	---	---	---	---	---	---	---	---	---	---	38645
	0	0	1	2	0	1	0	0	0	0	0	4
Polymer chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	24444	25667	24000	37250	29190	---	---	---	33025
	---	---	---	---	---	---	---	---	---	---	---	27744
	---	---	---	24444	25667	24000	37250	29190	---	---	---	26050
	---	---	---	---	---	---	---	---	---	---	---	26754
Pharmaceutical chemistry	---	---	---	6914	1116	2675	---	---	---	---	---	5637
	0	0	1	2	3	2	1	0	0	0	0	8
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	35444	26278	---	---	---	---	---	---	30861
	---	---	---	---	---	---	---	---	---	---	---	30861
Medicinal/clinical chemistry	0	0	1	1	0	0	0	0	0	0	0	2
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	21000	---	---	36300	---	---	---	---	24500
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	21000	---	---	36300	---	---	---	---	24500
Theoretical chemistry	0	0	0	1	0	0	1	0	0	0	0	2
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	1	0	0	0	0	0	1
Environmental chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	1	0	0	0	0	0	1
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	1	0	0	0	1
Physical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	1	0	0	0	0	0	0	1
Other chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	1	1	0	0	0	0	0	0	0	2
Non-chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	2	1	0	0	0	0	4
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	6	20	13	11	9	2	1	2	0	66

Table 4.2.2

SALARIES of FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK
according to YEARS SINCE BS and TYPE OF INSTITUTION
1986 Survey of ACS Members

SCHOOL	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Medical or prof. school	---	---	---	45250	---	30750	45900	---	---	---	---	39000	- 75th %ile
	---	---	31250	29000	35250	37000	36000	---	27000	32800	---	32800	- 50th %ile
	---	---	---	22525	---	26250	29000	---	---	---	---	27000	- 25th %ile
	---	---	31250	32183	35250	34000	36967	---	27000	32800	---	33305	- Mean
	---	---	6718	10813	7425	7439	8491	---	---	---	---	7820	- Std Dev
	0	0	2	6	2	4	3	0	1	1	0	19	- Count
Associate	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	20778	---	---	54389	---	---	---	---	37584	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	20778	---	---	54389	---	---	---	---	37584	
	---	---	---	---	---	---	---	---	---	---	---	23767	
	0	0	0	1	0	0	1	0	0	0	0	2	
Bachelors	---	---	28600	---	---	---	---	---	---	---	---	27684	
	---	---	25667	26523	34833	22856	26278	25422	---	---	---	26278	
	---	---	24444	---	---	---	---	---	---	---	---	24933	
	---	---	26237	26523	34833	22856	26278	25422	---	---	---	26794	
	---	---	2136	346	---	---	---	---	---	---	---	3402	
	0	0	3	2	1	1	1	1	0	0	0	9	
Masters	---	---	---	---	---	---	---	---	---	---	---	36728	
	---	---	---	26889	25222	---	---	---	---	44122	---	26000	
	---	---	---	---	---	---	---	---	---	---	---	24444	
	---	---	---	26889	25222	---	---	---	---	44122	---	29669	
	---	---	---	3457	1100	---	---	---	---	---	---	8323	
	0	0	0	2	2	0	0	0	0	1	0	5	
Doctorate	---	---	35444	41000	31706	41250	33875	---	---	---	---	35000	
	---	---	31000	30556	27872	35000	30250	44000	---	---	---	30556	
	---	---	25500	24722	27350	30584	29325	---	---	---	---	27300	
	---	---	30648	33185	29079	35296	31150	44000	---	---	---	32375	
	---	---	4981	10634	3129	5645	2631	---	---	---	---	7064	
	0	0	3	9	8	6	4	1	0	0	0	31	
TOTAL	---	---	34333	34000	33767	39000	40950	---	---	---	---	35625	
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	29667	
	---	---	25542	24444	26650	27000	29050	---	---	---	---	25917	
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	31835	
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	7747	
	0	0	8	20	13	11	9	2	1	2	0	66	

Table 4.2.3

SALARIES of FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK
according to YEARS SINCE BS and SEX
1986 Survey of ACS Members

SEX	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40			
Men	---	---	35722	45000	32700	40000	45900	---	---	---	---	38250	- 75th %ile
	---	---	31000	28000	27744	36000	35000	34711	---	44122	---	30778	- 50th %ile
	---	---	26000	24000	26000	30750	29100	---	---	---	---	26445	- 25th %ile
	---	---	30889	31897	29517	35095	36738	34711	---	44122	---	32969	- Mean
	---	---	4878	9956	4760	6353	10048	13137	---	---	---	7958	- Std Dev
	0	0	8	11	11	9	7	2	0	1	0	46	- Count
Women	---	---	28600	33000	---	---	---	---	---	---	---	31778	
	---	---	25667	27500	31861	27389	29500	---	27000	32800	---	28722	
	---	---	24444	24583	---	---	---	---	---	---	---	25000	
	---	---	26237	30278	31861	27389	29500	---	27000	32800	---	29381	
	---	---	2136	10032	4439	6207	707	---	---	---	---	6856	
	0	0	3	8	2	2	2	0	1	1	0	19	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	26278	---	---	---	---	---	---	---	26278	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	26278	---	---	---	---	---	---	---	26278	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	1	0	0	0	0	0	0	0	1	
TOTAL	---	---	34333	34000	33767	39000	40950	---	---	---	---	35625	
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	29667	
	---	---	25542	24444	26650	27000	29050	---	---	---	---	25917	
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	31835	
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	7747	
	0	0	8	20	13	11	9	2	1	2	0	66	

Table 4.3.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS
According to YEARS SINCE BS and WORK SPECIALTY
1985 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS										TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	
Biochemistry	...	...	42500	44375	47125	49800	...	...	...	...	39000
	...	...	10000	10278	10500	10800	11900	12000	...	...	32450
	...	...	26300	27186	30128	31800	...	...	...	...	28700
	...	...	13933	10101	14001	15667	11900	12000	...	...	32037
	...	...	6140	7544	10448	14088	...	...	...	...	5525
Biotechnology	0	0	1	20	8	3	1	1	0	0	36
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
General Chemistry	...	...	...	30000	32369	...	...	...	...	...	30597
	...	...	21750	29333	27500	26356	...	...	...	...	27928
	...	...	...	26356	26689	...	...	...	...	...	21875
	...	...	21750	29230	26926	26356	...	...	...	...	27468
	...	...	354	827	1015	10025	...	...	...	...	4747
Analytical Chemistry	0	0	2	3	1	2	0	0	0	0	10
	...	...	32745	33153	36657	35444	...	...	...	...	34711
	...	...	10862	26773	28722	33611	36911	29944	...	36667	30556
	...	...	26276	25056	26500	26276	...	...	...	...	26438
	...	...	29681	29142	10576	31776	36911	29944	...	36667	30338
Inorganic Chemistry	...	...	4880	5074	5870	4850	...	...	...	...	3045
	0	0	10	10	7	1	1	1	0	1	33
	...	...	31776	33000	36631	...	...	...	...	...	32695
	...	...	10556	26667	32389	28111	...	...	...	...	29944
	...	...	26689	26689	24444	...	...	...	...	...	26689
Organic Chemistry	...	...	10844	24463	30555	28111	...	...	...	...	30591
	...	...	4837	3187	5432	...	...	...	...	...	3962
	0	0	11	14	2	1	0	0	0	0	28
	...	...	33917	30556	28234	...	...	...	...	...	31167
	...	...	24411	24456	25667	...	33000	...	...	...	29967
Polymer Chemistry	...	...	25055	27378	23834	...	...	...	...	...	28217
	...	...	19458	29131	36570	...	33000	...	...	...	28276
	...	...	4512	3095	2945	...	...	...	...	...	3961
	0	0	12	15	9	0	1	0	0	0	37
	...	...	45222	29111	...	...	...	...	...	...	29111
Pharmaceutical Chemistry	...	...	29111	45500	33511	...	...	...	...	...	29111
	...	...	29111	31167	...	...	...	...	...	...	32511
	...	...	41448	35758	32511	...	...	...	...	...	37390
	...	...	3525	3977	...	...	...	...	...	...	4767
	0	0	1	1	1	0	0	0	0	0	7
Medical Chemistry	...	...	42500	...	...	...	...	...	...	...	37000
	...	...	...	...	...	...	...	...	...	...	37000
	...	...	42500	...	...	...	...	...	...	...	37000
	...	...	...	...	...	...	...	...	...	...	37000
	...	...	...	...	...	...	...	...	...	...	37000
Theoretical Chemistry	...	...	37000	...	...	...	...	...	...	...	37000
	...	...	37000	...	...	...	...	...	...	...	37000
	...	...	37000	...	...	...	...	...	...	...	37000
	...	...	37000	...	...	...	...	...	...	...	37000
	...	...	37000	...	...	...	...	...	...	...	37000
Environmental Chemistry	...	...	40333	...	...	...	...	...	...	...	40333
	...	...	40333	...	...	...	...	...	...	...	40333
	...	...	40333	...	...	...	...	...	...	...	40333
	...	...	40333	...	...	...	...	...	...	...	40333
	...	...	40333	...	...	...	...	...	...	...	40333
Agricultural Food Chemistry	...	...	31750	37000	33367	...	...	...	...	...	36992
	...	...	31750	37000	33367	...	...	...	...	...	36992
	...	...	31750	37000	33367	...	...	...	...	...	36992
	...	...	31750	37000	33367	...	...	...	...	...	36992
	...	...	31750	37000	33367	...	...	...	...	...	36992
Physical Chemistry	...	...	31500	33000	32445	33000	...	...	...	...	32400
	...	...	28090	27317	29133	32000	30556	...	...	...	29133
	...	...	25911	26584	29028	30800	...	...	...	...	27900
	...	...	28154	30567	30775	32257	30556	...	...	...	29000
	...	...	26338	29118	22714	12719	...	...	...	...	3967
Other Chemistry	0	0	7	6	5	1	1	0	0	1	23
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
Non-chemistry	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...
TOTAL	...	...	33000	33750	34000	35444	37556	...	...	51250	34000
...	...	...	30556	30000	29944	33511	33900	30972	...	39634	30556
...	...	...	26689	27194	27200	30667	31776	...	...	29417	27289
...	...	...	30440	30446	30640	34786	34513	30972	...	40167	31221
...	...	...	5480	5467	6055	10747	3088	1494	...	11326	6181
0	0	0	90	84	43	17	5	2	0	4	205

Table 4.3.2

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS
according to YEARS SINCE BS and TYPE OF INSTITUTION
1986 Survey of ACS Members

SCHOOL	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Medical or prof. school	---	---	---	38375	40000	48100	---	---	---	---	---	39800	~ 75th %-ile
	---	---	---	32000	35000	34250	36050	32000	---	54000	---	34000	~ 50th %-ile
	---	---	---	28125	28000	33600	---	---	---	---	---	30000	~ 25th %-ile
	---	---	---	31814	34333	41350	36050	32000	---	54000	---	35971	- Mean
	---	---	---	11182	6028	15696	3041	---	---	---	---	11936	- Std Dev
	0	0	0	10	3	6	2	1	0	1	0	23	- Count
Associate	---	---	---	30000	---	35444	---	---	---	---	---	34283	
	---	---	36667	27500	30800	29333	---	---	---	---	---	29667	
	---	---	---	27378	---	21267	---	---	---	---	---	27409	
	---	---	36667	28293	30800	28681	---	---	---	---	---	29799	
	---	---	---	1480	---	7111	---	---	---	---	---	4844	
	0	0	1	3	1	3	0	0	0	0	0	8	
Bachelors	---	---	29639	30556	29944	35750	---	---	---	---	---	30556	
	---	---	26595	27928	27500	31900	30556	---	---	36667	---	27500	
	---	---	23450	26889	24444	27409	---	---	---	---	---	25667	
	---	---	26180	28501	27877	31686	30556	---	---	36667	---	28014	
	---	---	3535	3009	3676	4342	---	---	---	---	---	3779	
	0	0	18	20	19	4	1	0	0	1	0	63	
Masters	---	---	31778	30372	33978	---	---	---	---	---	---	32756	
	---	---	28478	27133	32511	33306	36911	29944	---	---	---	29333	
	---	---	25667	24445	28234	---	---	---	---	---	---	27011	
	---	---	28775	27609	31387	33306	36911	29944	---	---	---	29612	
	---	---	3087	3627	3160	432	---	---	---	---	---	3764	
	0	0	7	9	5	2	1	1	0	0	0	25	
Doctorate	---	---	36850	35000	36667	---	---	---	---	---	---	35458	
	---	---	32750	31350	33489	31778	33000	---	---	35000	---	32395	
	---	---	30667	29425	29333	---	---	---	---	---	---	29731	
	---	---	33878	32208	33141	31778	33000	---	---	35000	---	32901	
	---	---	4821	4322	4390	5185	---	---	---	11314	---	4576	
	0	0	24	42	15	2	1	0	0	2	0	86	
TOTAL	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	
	0	0	90	84	43	17	5	2	0	4	0	205	

Table 4.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS
according to YEARS SINCE BS and SEX
1986 Survey of ACS Members

SEX	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Men	---	---	33489	34000	34000	35444	37878	---	---	---	---	34056	- 75th %ile
	---	---	30556	30000	29944	33306	34956	29944	---	31834	---	30556	- 50th %ile
	---	---	26889	27500	27200	28783	31167	---	---	---	---	27334	- 25th %ile
	---	---	30790	30862	30491	32327	34667	29944	---	31834	---	30966	- Mean
	---	---	5465	5723	4399	5049	3521	---	---	6836	---	5284	- Std Dev
	0	0	45	71	35	12	4	1	0	2	0	170	- Count
Women	---	---	31389	33611	37461	53500	---	---	---	---	---	34056	
	---	---	30556	28800	30067	33800	33900	32000	---	48500	---	30900	
	---	---	21750	26000	25666	31167	---	---	---	---	---	27100	
	---	---	27367	29631	31289	40627	33900	32000	---	48500	---	32610	
	---	---	5149	3841	5929	18195	---	---	---	7778	---	9511	
	0	0	5	12	8	5	1	1	0	2	0	34	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27500	---	---	---	---	---	---	---	27500	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	27500	---	---	---	---	---	---	---	27500	
	0	0	0	1	0	0	0	0	0	0	0	1	
TOTAL	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	
	0	0	50	84	43	17	5	2	0	4	0	205	

Table A.6.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. ASSOCIATE PROFESSORS
according to YEARS SINCE BS and WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS										No. Exp.	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49		
Biochemistry	39111	40875	47000	48642	46750	44444	44444	44444	44444	44444	44444	44750
	18000	40961	41000	40190	37889	39300	39300	39300	39300	39300	39300	40000
	29056	35037	40000	31750	29500	29500	29500	29500	29500	29500	29500	36000
	34360	40570	41329	39647	37676	49000	44444	44444	44444	44444	44444	46776
	4582	4670	7890	8165	9516	44444	44444	44444	44444	44444	44444	1677
	0	0	0	11	12	7	4	9	1	0	0	40
Biotechnology	41000	50000	44444	44444	44444	44444	44444	44444	44444	44444	44444	47750
	41000	50000	44444	44444	44444	44444	44444	44444	44444	44444	44444	40500
	41000	50000	44444	44444	44444	44444	44444	44444	44444	44444	44444	37600
	41000	50000	44444	44444	44444	44444	44444	44444	44444	44444	44444	41976
	41000	50000	44444	44444	44444	44444	44444	44444	44444	44444	44444	5624
	0	0	1	1	0	1	0	0	1	0	0	4
General chemistry	31596	40000	38756	37889	39647	37889	39647	37889	39647	37889	39647	39600
	26490	34956	35567	37889	39647	37889	39647	37889	39647	37889	39647	35444
	23559	31045	28736	29500	31045	29500	31045	29500	31045	29500	31045	29395
	27194	37036	34166	37889	39647	37889	39647	37889	39647	37889	39647	35610
	4275	7075	5390	44444	44444	44444	44444	44444	44444	44444	44444	9030
	0	0	0	0	4	6	1	1	1	0	0	17
Analytical chemistry	35911	41000	42656	44556	44556	44556	44556	44556	44556	44556	44556	42776
	35911	41000	42656	44556	44556	44556	44556	44556	44556	44556	44556	36911
	35911	41000	42656	44556	44556	44556	44556	44556	44556	44556	44556	33000
	35911	41000	42656	44556	44556	44556	44556	44556	44556	44556	44556	36667
	1490	5746	8616	8586	4922	44444	44444	44444	44444	44444	44444	7163
	0	0	1	6	6	5	1	1	1	0	0	29
Inorganic chemistry	41596	40333	41601	51689	44444	44444	44444	44444	44444	44444	44444	40455
	36667	34956	38900	41927	44444	44444	44444	44444	44444	44444	44444	37776
	35556	31045	35341	38275	44444	44444	44444	44444	44444	44444	44444	31391
	36911	36771	39194	41929	44444	44444	44444	44444	44444	44444	44444	38053
	3280	5152	9357	7323	44444	44444	44444	44444	44444	44444	44444	4675
	0	0	2	5	6	0	1	1	1	0	0	14
Organic chemistry	41596	42776	39641	46900	51333	44444	44444	44444	44444	44444	44444	42776
	36667	36667	37584	42776	47190	53776	37276	44444	44444	44444	44444	37584
	38900	31000	31776	31776	31900	44444	44444	44444	44444	44444	44444	32358
	36667	38256	36275	36485	46546	51776	37276	44444	44444	44444	44444	37422
	6375	7686	5928	7817	8636	44444	44444	44444	44444	44444	44444	7441
	0	0	0	13	15	28	3	1	1	0	0	68
Polymer chemistry	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	0	0	0	0	0	1	0	1	0	0	0	2
Pharmaceutical chemistry	41000	50500	29944	44444	44444	44444	44444	44444	44444	44444	44444	51200
	41000	50500	29944	44444	44444	44444	44444	44444	44444	44444	44444	45000
	41000	50500	29944	44444	44444	44444	44444	44444	44444	44444	44444	36472
	41000	50500	29944	44444	44444	44444	44444	44444	44444	44444	44444	44000
	7776	44444	44444	44444	44444	44444	44444	44444	44444	44444	44444	8345
	0	0	0	1	2	1	0	0	1	0	0	5
Medical/clinical chemistry	41800	46444	41676	50800	49200	44444	44444	44444	44444	44444	44444	51025
	41800	46444	41676	50800	49200	44444	44444	44444	44444	44444	44444	44000
	41800	46444	41676	50800	49200	44444	44444	44444	44444	44444	44444	38125
	41800	46444	41676	50800	49200	44444	44444	44444	44444	44444	44444	43787
	14001	44444	44444	44444	44444	44444	44444	44444	44444	44444	44444	7440
	0	0	0	0	2	1	1	1	1	0	0	6
Theoretical chemistry	40166	42523	43389	44444	44444	44444	44444	44444	44444	44444	44444	44017
	35909	41000	41000	44444	44444	44444	44444	44444	44444	44444	44444	43389
	36116	44444	44444	44444	44444	44444	44444	44444	44444	44444	44444	37626
	42298	42523	42147	44444	44444	44444	44444	44444	44444	44444	44444	41956
	8163	5002	44444	44444	44444	44444	44444	44444	44444	44444	44444	5707
	0	0	0	1	6	1	3	0	0	0	0	9
Environmental chemistry	47776	46233	31611	42900	44444	44444	44444	44444	44444	44444	44444	44586
	47776	46233	31611	42900	44444	44444	44444	44444	44444	44444	44444	40167
	47776	46233	31611	42900	44444	44444	44444	44444	44444	44444	44444	33617
	47776	46233	31611	42900	44444	44444	44444	44444	44444	44444	44444	36613
	7686	864	44444	44444	44444	44444	44444	44444	44444	44444	44444	5522
	0	0	0	1	5	2	1	0	0	0	0	10
Agricultural/food chemistry	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	35500
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	35500
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	35500
	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	44000	35500
	0	0	0	0	1	0	0	1	0	0	0	2
Physical chemistry	41396	42776	39111	45589	53381	44444	44444	44444	44444	44444	44444	43156
	38772	40667	35444	39644	41611	44444	44444	44444	44444	44444	44444	37945
	31608	37913	31000	34465	32417	44444	44444	44444	44444	44444	44444	32909
	35742	35442	35452	40016	42419	44444	44444	44444	44444	44444	44444	38842
	9421	8109	1076	5816	10882	44444	44444	44444	44444	44444	44444	7627
	0	0	0	1	10	4	3	0	0	0	0	16
Other chemistry	37889	40884	40884	40884	40884	40884	40884	40884	40884	40884	40884	41911
	38667	41800	40884	40884	40884	40884	40884	40884	40884	40884	40884	38185
	41800	41800	41800	41800	41800	41800	41800	41800	41800	41800	41800	35750
	35185	41004	44444	44444	44444	44444	44444	44444	44444	44444	44444	40061
	3676	4082	44444	44444	44444	44444	44444	44444	44444	44444	44444	5816
	0	0	0	3	2	0	1	0	0	0	0	6
Non-chemistry	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	47900
	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	47900
	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	47900
	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	47900
	0	0	0	0	0	3	0	0	0	0	0	5
TOTAL	41276	42776	42776	44001	47192	50111	43406	44444	44444	44444	44444	47511
	36667	36667	36667	37889	39647	41350	43000	37994	44444	44444	44444	40900
	31596	32775	31776	35446	36782	37889	34041	44444	44444	44444	44444	33000
	36667	37666	36130	40729	41363	43332	37909	44444	44444	44444	44444	38882
	5515	7797	7234	9351	6993	9734	44444	44444	44444	44444	44444	7886
	0	0	0	29	76	63	30	15	6	0	0	273

Table 4.4.2

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSOCIATE PROFESSORS
according to YEARS SINCE BS and TYPE OF INSTITUTION
1986 Survey of ACS Members

SCHOOL	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40	No Resp	
Medical or prof. school	---	---	---	---	51700	46500	47920	50322	---	---	---	48945 - 75th %ile
	---	---	---	37500	50000	44000	41239	44795	37600	49000	---	41000 - 50th %ile
	---	---	---	---	38000	34972	40200	31925	---	---	---	39000 - 25th %ile
	---	---	---	37500	46567	42090	43120	42347	37600	49000	---	42383 - Mean
	---	---	---	4950	7467	9354	4638	9918	3677	---	---	7643 - Std Dev
	0	0	0	2	3	9	4	4	2	1	0	25 - Count
Associate	---	---	---	---	---	44917	47000	---	---	---	---	47167
	---	---	---	24200	38256	36667	44611	56000	---	36055	---	36667
	---	---	---	---	---	31961	35444	---	---	---	---	31961
	---	---	---	24200	38256	38134	42352	56000	---	36055	---	39187
	---	---	---	---	14346	6440	6100	---	---	---	---	8958
	0	0	0	1	2	6	3	1	0	1	0	14
Bachelors	---	---	---	42411	34955	39111	40028	42961	---	---	---	39111
	---	---	---	31594	32939	35967	33611	41167	27278	38745	---	34283
	---	---	---	23511	30556	30587	26375	36792	---	---	---	30770
	---	---	---	32505	32488	35654	34102	40171	27278	38745	---	34864
	---	---	---	10202	5178	6757	7143	4705	4636	2074	---	6630
	0	0	0	4	24	36	10	10	2	2	0	88
Masters	---	---	---	36667	38195	44000	46900	46200	---	---	---	42167
	---	---	---	35000	33000	37278	39111	43511	42778	36911	---	37033
	---	---	---	30556	31350	32389	35444	40455	---	---	---	33000
	---	---	---	34074	34221	38639	44103	43389	42778	36911	---	38808
	---	---	---	3159	4341	6792	15565	2874	3457	---	---	8886
	0	0	0	3	9	8	7	3	2	1	0	33
Doctorate	---	---	---	42000	44367	45986	48233	47667	54939	---	---	46239
	---	---	---	37889	40333	40333	42195	39556	49500	28000	---	40333
	---	---	---	36055	36973	35292	38195	33061	40500	---	---	36667
	---	---	---	38520	41616	40188	43079	40302	48296	28000	---	41220
	---	---	---	5381	7183	6585	5983	7681	7714	---	---	7128
	0	0	0	19	36	24	12	12	9	1	0	113
TOTAL	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866
	0	0	0	29	74	83	36	30	15	6	0	273

Table 4.4.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSOCIATE PROFESSORS
according to YEARS SINCE BS and SEX
1986 Survey of ACS Members

SEX	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49			
Men	---	---	---	41555	42778	44000	45722	47575	50111	46070	---	44000	- 75th %ile
	---	---	---	36667	36606	39111	40000	41739	45222	36667	---	38745	- 50th %ile
	---	---	---	32144	32725	34222	35444	34597	38000	30014	---	33691	- 25th %ile
	---	---	---	36930	37761	38871	40896	41389	45375	37583	---	39215	- Mean
	---	---	---	6667	7821	7052	9593	7241	7556	8653	---	7860	- Std Dev
	0	0	0	27	62	67	33	28	11	4	0	232	- Count
Women	---	---	---	---	44856	40000	47000	---	52125	---	---	41097	
	---	---	---	34467	38194	34222	36667	41000	35378	38561	---	36667	
	---	---	---	---	32145	30556	33000	---	29639	---	---	31166	
	---	---	---	34467	38408	35243	38889	41000	37714	38561	---	37129	
	---	---	---	4840	7993	7590	7260	1414	13947	2333	---	7781	
	0	0	0	2	12	15	3	2	4	2	0	40	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	31778	---	---	---	---	---	31778	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	31778	---	---	---	---	---	31778	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	1	0	0	0	0	0	1	
TOTAL	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511	
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500	
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000	
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882	
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866	
	0	0	0	29	74	83	36	30	15	6	0	273	

Table 4.5.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS
according to YEARS SINCE BS and WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	No Resp.	
Biochemistry	---	---	---	---	54755	59000	65675	78333	79722	80667	---	74416 - 75th S-ile
	---	---	---	---	52000	56000	61167	67722	68855	74000	---	58667 - 50th S-ile
	---	---	---	---	51166	47155	45989	45567	56500	60000	---	47750 - 25th S-ile
	---	---	---	---	51716	52001	58800	61300	66773	71441	---	63198 - Mean
	0	0	0	0	11	23	18	24	17	15	0	16800 - Std Dev
Biotechnology	---	---	---	---	---	51111	62500	72000	---	---	---	75200
	---	---	---	---	10000	51111	56000	60000	80000	76267	---	61111
	---	---	---	---	---	50000	42167	37155	---	---	---	45175
	---	---	---	---	10000	59014	61000	56100	80000	76267	---	58166
	0	0	0	0	1	3	3	3	1	1	0	2568
General Chemistry	---	---	---	---	36117	51972	50125	51333	55611	83000	---	51333
	---	---	---	---	35445	43389	41739	44000	44000	67222	---	42411
	---	---	---	---	32417	36463	35472	37800	36667	51333	---	45133
	---	---	---	---	34933	42754	43078	44754	44600	67126	---	44177
	0	0	0	0	6	8	12	10	11	3	0	50
Analytical Chemistry	---	---	---	---	---	49500	55814	53416	55978	61967	---	56711
	---	---	---	---	52555	53778	47667	49400	56500	52555	---	49500
	---	---	---	---	---	45100	40111	48776	42776	40576	---	42961
	---	---	---	---	57555	53778	58732	61200	59964	48033	---	50576
	0	0	0	1	3	17	17	12	11	1	0	62
Inorganic Chemistry	---	---	---	---	67222	50570	53167	61366	66750	81111	---	59881
	---	---	---	---	44000	45467	46378	49445	54817	55761	---	45956
	---	---	---	---	60333	45000	39867	47775	33584	44076	---	42161
	---	---	---	---	49000	46301	46400	51423	49028	54436	---	50157
	0	0	0	0	7	18	17	14	6	0	0	72
Organic Chemistry	---	---	---	---	58616	50111	58750	58178	60804	66733	---	57750
	---	---	---	---	46495	45722	53778	51366	51333	59889	---	50111
	---	---	---	---	40776	37684	42664	47655	40576	47927	---	41555
	---	---	---	---	49470	44914	52435	51403	51307	67766	---	50579
	0	0	0	0	4	41	36	31	29	11	0	153
Polymer Chemistry	---	---	---	---	67222	60667	70000	78814	80666	---	---	67806
	---	---	---	---	50722	67222	50111	58778	69000	56000	---	61614
	---	---	---	---	---	50000	39722	52250	47025	61800	---	51629
	---	---	---	---	50722	61825	50400	55407	65717	70146	---	61611
	0	0	0	0	2	7	7	6	6	4	0	32
Pharmaceutical Chemistry	---	---	---	---	---	---	---	---	---	---	---	60945
	---	---	---	---	---	49000	40500	35000	79889	51000	---	47000
	---	---	---	---	---	---	---	---	---	---	---	39000
	---	---	---	---	---	49000	40000	38000	79889	51000	---	48716
	0	0	0	0	0	1	1	1	1	1	0	5
Medicinal/ Clinical Chemistry	---	---	---	---	---	---	---	---	---	---	---	58100
	---	---	---	---	---	45000	45000	45000	45000	48400	---	50000
	---	---	---	---	---	41500	40000	41433	40000	---	---	41855
	---	---	---	---	---	54500	51000	48011	49000	49400	---	50818
	0	0	0	0	0	3	3	3	3	2	0	14
Theoretical Chemistry	---	---	---	---	---	73121	56223	74770	---	91867	---	60169
	---	---	---	---	---	58745	55611	49750	56772	65444	---	53811
	---	---	---	---	---	54022	42776	44550	---	50000	---	48511
	---	---	---	---	---	60745	54764	50489	55697	65444	---	59387
	0	0	0	0	2	5	7	4	1	3	0	22
Environmental Chemistry	---	---	---	---	67500	42730	---	70875	65895	---	---	66161
	---	---	---	---	50000	55878	51700	67950	59889	---	---	58000
	---	---	---	---	51069	40167	---	48000	45850	---	---	45500
	---	---	---	---	57686	48746	51700	59975	54596	78444	---	56278
	0	0	0	0	3	5	1	4	5	1	0	20
Agricultural/ Food Chemistry	---	---	---	---	---	---	---	81022	---	89217	---	58722
	---	---	---	---	---	49500	42000	47000	59500	---	---	56500
	---	---	---	---	---	---	---	41750	---	57000	---	57900
	---	---	---	---	---	49500	67000	58669	59500	51272	---	59011
	0	0	0	0	0	7	1	5	2	4	0	14
Physical Chemistry	---	---	---	---	58300	56617	48889	45389	61111	61750	---	60816
	---	---	---	---	47000	48889	44028	51333	55000	71390	---	50111
	---	---	---	---	46078	46465	39400	47395	50111	60756	---	46561
	---	---	---	---	50478	48473	48804	54612	57581	74102	---	53578
	0	0	0	0	3	22	20	25	19	10	1	86
Other Chemistry	---	---	---	---	---	---	---	---	---	---	---	43555
	---	---	---	---	---	53167	47000	50000	---	52678	---	52678
	---	---	---	---	---	44000	51333	---	---	51333	---	48889
	---	---	---	---	---	53167	57622	60866	---	57480	---	55415
	0	0	0	0	0	2	5	5	0	3	0	15
Radiochemistry	---	---	---	---	---	40000	40000	66400	71956	73750	---	49875
	---	---	---	---	---	48000	51000	59155	67500	51000	---	56000
	---	---	---	---	---	37155	38844	47956	50000	32081	---	45750
	---	---	---	---	---	48385	51515	57233	61135	52278	---	50082
	0	0	0	0	1	3	3	5	9	4	0	24
TOTAL	---	---	---	---	54018	55167	58161	63555	67130	77634	---	62333
---	---	---	---	---	52555	46750	48889	48889	52739	51534	---	51333
---	---	---	---	---	39783	42775	40639	45000	45417	50000	---	43633
---	---	---	---	---	52555	48823	49706	50134	55769	64642	---	53509
---	---	---	---	---	35125	31888	32446	34382	34767	36600	---	34287
0	0	0	1	40	161	353	156	116	73	1	0	899

Table 4.5.2

SALARIES of FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS
according to YEARS SINCE BS and TYPE OF INSTITUTION
1986 Survey of ACS Members

SCHOOL	YEARS SINCE BS										No Resp	TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40		
Medical or prof. school	---	---	---	---	---	62800	67625	72550	83150	82834	---	73600 - 75th %-ile
	---	---	---	---	51211	50000	63050	58000	58000	75000	---	60000 - 50th %-ile
	---	---	---	---	---	43500	49750	51500	47000	66000	---	50000 - 25th %-ile
	---	---	---	---	51211	54779	61133	61886	63660	73235	---	61613 - Mean
	---	---	---	---	---	16243	13997	15396	18687	11181	---	15595 - Std Dev
	0	0	0	0	1	15	12	14	5	9	0	56 - Count
Associate	---	---	---	---	39600	54389	---	47667	57078	---	---	46139
	---	---	---	---	37889	45222	35200	34222	44000	---	---	39356
	---	---	---	---	27000	39723	---	23700	39111	---	---	34833
	---	---	---	---	34830	46689	35200	35196	46730	---	---	40882
	---	---	---	---	6834	9522	2075	12013	9289	---	---	9880
	0	0	0	0	3	5	2	3	3	0	0	16
Bachelors	---	---	---	---	44000	47025	46444	50111	52739	60561	---	48889
	---	---	---	---	36667	41922	40333	44428	46322	52128	---	42717
	---	---	---	---	34222	36789	36667	40486	35078	42380	---	36667
	---	---	---	---	38849	42190	41327	45434	45185	51263	---	43670
	---	---	---	---	6363	8643	7523	9684	12269	10831	---	9616
	0	0	0	0	7	44	43	34	22	14	0	164
Masters	---	---	---	---	46811	51333	55000	54389	51986	---	---	52830
	---	---	---	---	44428	47911	48278	51000	47667	40578	---	47728
	---	---	---	---	42778	42778	42778	43872	44125	---	---	42778
	---	---	---	---	44672	47168	48781	48988	48649	40578	---	48043
	---	---	---	---	2223	8038	6988	8500	6662	---	---	7375
	0	0	0	0	4	31	27	1	20	1	0	100
Doctorate	---	---	---	---	59889	63139	62367	68683	70431	79444	---	67222
	---	---	---	---	52555	53000	53961	53778	58423	62167	59400	57444
	---	---	---	---	---	44350	48889	47361	49725	50778	---	49622
	---	---	---	---	52555	53864	54984	54672	59933	61267	59400	58881
	---	---	---	---	16547	11401	12745	13880	14361	13549	---	14085
	0	0	0	1	25	66	69	86	66	49	1	363
TOTAL	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333
	---	---	---	---	52555	46750	48889	48889	52739	53534	59400	51333
	---	---	---	---	---	39783	42778	40639	45000	45417	---	43633
	---	---	---	---	52555	48823	49706	50134	55219	55769	59400	53569
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297
	0	0	0	1	40	161	153	154	116	73	1	699

Table 4.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS
according to YEARS SINCE BS and SEX
1986 Survey of ACS Members

SEX	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Men	---	---	---	---	55300	56222	58514	63555	67130	79111	---	62400	- 75th %ile
	---	---	---	52555	48889	48889	49811	52555	54389	63034	59400	51700	- 50th %ile
	---	---	---	---	39967	42778	40609	45000	45417	56350	---	44000	- 25th %ile
	---	---	---	52555	49750	49845	50486	55144	56054	65456	59400	53864	- Mean
	---	---	---	---	15208	12105	11818	14442	14548	14643	---	14223	- Std Dev
	0	0	0	1	37	151	144	151	108	70	1	663	- Count
Women	---	---	---	---	---	53870	52834	---	65572	56000	---	53870	
	---	---	---	---	34095	47789	42778	57189	48834	52922	---	47100	
	---	---	---	---	---	41250	37583	---	42050	42655	---	41097	
	---	---	---	---	34095	47600	44500	57189	51914	50526	---	47822	
	---	---	---	---	10033	8061	20240	17269	17872	6988	---	14977	
	0	0	0	0	2	10	9	2	8	3	0	34	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	44000	---	---	62700	---	---	---	53350	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	44000	---	---	62700	---	---	---	53350	
	0	0	0	0	1	0	0	1	0	0	0	2	
TOTAL	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333	
	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333	
	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633	
	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569	
	---	---	---	---	15120	11888	12448	14302	14747	14689	---	14297	
	0	0	0	1	40	161	153	154	116	73	1	699	

Table 5.1.1

STIPENDS of POST-DOCTORAL FELLOWS
according to INSTITUTIONAL CONTROL and WORK FIELD
1986 Survey of ACS Members

WORK FIELD	INSTITUTIONAL CONTROL			TOTAL
	Public	Private	No Resp	
Chemical engineering	24000	---	---	24000 - 75th %-ile
	22000	---	---	22000 - 50th %-ile
	10200	---	---	10200 - 25th %-ile
	18733	---	---	18733 - Mean
	7457	---	---	7457 - Std Dev
	3	0	0	3 - Count
Biochemistry	21500	20500	19500	20000
	19050	17500	18000	18000
	16000	15625	16700	16000
	18894	17883	18080	18403
	3240	2448	1460	2736
	16	12	5	33
Chemistry	20000	18100	17250	18500
	17000	17000	16000	17000
	15675	15000	16000	15525
	17362	17042	16400	17158
	3600	3309	1246	3325
	50	29	9	88
Non-chemistry	---	---	---	---
	25000	---	---	25000
	---	---	---	---
	25000	---	---	25000
	7071	---	---	7071
	2	0	0	2
No Response	16000	23000	---	16000
	15000	16000	15000	15000
	12222	15000	---	15000
	14407	18000	15000	16032
	1957	4359	---	3323
	3	3	1	7
TOTAL	20000	18800	18000	20000
	17000	17000	16600	17000
	15925	15100	16000	15650
	17836	17337	16867	17561
	3936	3118	1553	3479
	74	44	15	133

Table 6.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMICAL ENGINEERS
according to YEARS SINCE BS and HIGHEST DEGREE
1986 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	≥40			
Bachelors	---	31900	41550	51000	57250	71000	54900	70750	68300	54000	---	54675	- 75th %ile
	23500	29300	35750	42600	46900	48000	46700	54650	58000	51000	---	43900	- 50th %ile
	---	25950	30925	35525	35525	33400	42600	42250	45000	43800	---	34325	- 25th %ile
	23500	29367	36346	43725	45731	52486	49691	55800	57746	50942	---	45918	- Mean
	6164	9702	8277	11412	10842	23081	11423	17559	15636	13016	---	16076	- Std Dev
	2	21	26	20	16	7	11	20	26	19	0	168	- Count
Masters	---	30000	42875	48225	53900	61000	63000	66000	65000	68550	---	59850	
	30800	29500	37300	42750	44700	55000	53400	53000	55500	58000	---	48000	
	---	24000	33000	38050	39000	46700	41000	50000	44775	48000	---	39850	
	30800	27833	38714	43095	48568	55300	50400	57720	57533	58389	---	49768	
	---	3329	7689	9742	11617	12499	15241	10813	16069	12564	---	14181	
	1	3	22	20	19	17	11	15	24	9	0	141	
Doctorate	---	---	46000	53250	64675	75000	76500	75000	78475	75375	---	70125	
	---	---	41600	48950	56000	62400	68400	64600	66600	66500	---	59400	
	---	---	40000	42375	48800	50000	56000	55500	57900	51956	---	47925	
	---	---	42364	47323	57821	62658	64248	64595	64858	63532	---	59071	
	---	---	10163	12120	9867	16818	17923	10656	16837	14343	---	15908	
	0	0	11	30	28	31	31	21	24	10	0	186	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	40900	40900	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	40900	40900	
	---	---	---	---	---	---	---	---	---	---	5515	5515	
	0	0	0	0	0	0	0	0	0	0	2	2	
TOTAL	30800	30725	42500	51000	60000	70000	72450	72000	70700	65500	---	63250	
	28000	29400	38300	45000	51500	58000	57000	59550	60400	53450	40900	50000	
	19000	25475	33000	39925	43900	47000	46000	50000	49000	45000	---	40000	
	25933	29175	38351	45087	51960	59089	58353	59613	59984	56019	40900	51913	
	6165	9115	8582	11296	11793	16736	17466	13903	16309	14016	5515	16475	
	3	24	59	70	63	55	53	56	74	38	2	497	

Table 7.1.0

EMPLOYMENT STATUS OF ALL RESPONDENTS
according to WORK FIELD
1986 Survey of ACS Members

WORK FIELD	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed Part-time	Postdoc, Un- or other fellow,	Un- employed seeking	Un- employed Not seek.	No Response		
Chemical engineering	659 93.3% 6.6%	13 1.8% 7.4%	3 0.4% 1.6%	17 2.4% 9.0%	13 1.8% 8.9%	1 0.1% 1.7%	706 100.0% 6.5%	-Count -% of Row -% of Col
Biochemistry	737 89.9% 7.3%	18 2.2% 10.2%	46 5.6% 24.9%	11 1.3% 5.8%	7 0.9% 4.8%	1 0.1% 1.7%	820 100.0% 7.6%	
Chemistry	7,392 93.9% 73.6%	108 1.4% 61.4%	125 1.6% 67.6%	133 1.7% 70.4%	95 1.2% 65.1%	19 0.2% 32.2%	7,872 100.0% 72.9%	
Non-chemistry	823 91.9% 8.2%	28 3.1% 15.9%	3 0.3% 1.6%	20 2.2% 10.6%	12 1.3% 8.2%	10 1.1% 16.9%	896 100.0% 8.3%	
No Response	429 85.6% 4.3%	9 1.8% 5.1%	8 1.6% 4.3%	8 1.6% 4.2%	19 3.8% 13.0%	28 5.6% 47.5%	501 100.0% 4.6%	
TOTAL	10,040 93.0% 100.0%	176 1.6% 100.0%	185 1.7% 100.0%	189 1.8% 100.0%	146 1.4% 100.0%	59 0.5% 100.0%	10,795 100.0% 100.0%	

Table 8.1.0

EMPLOYMENT STATUS of ALL CHEMISTS
according to HIGHEST DEGREE
1986 Survey of ACS Members

HIGHEST DEGREE	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or other fellow	Un- employed seeking	Un- employed Not seek	No Response		
Bachelors	2,105 93.9% 24.1%	32 1.4% 21.9%	1 0.0% 0.6%	58 2.6% 37.2%	42 1.9% 38.9%	4 0.2% 14.8%	2,242 100.0% 24.0%	-Count -% of Row -% of Col
Masters	1,593 94.2% 18.3%	36 2.1% 24.7%	2 0.1% 1.2%	28 1.7% 17.9%	24 1.4% 22.2%	8 0.5% 29.6%	1,691 100.0% 18.1%	
Doctorate	4,965 93.1% 56.9%	77 1.4% 52.7%	168 3.2% 97.7%	68 1.3% 43.6%	41 0.8% 38.0%	14 0.3% 51.9%	5,333 100.0% 57.2%	
No Response	59 90.8% 0.7%	1 1.5% 0.7%	1 1.5% 0.6%	2 3.1% 1.3%	1 1.5% 0.9%	1 1.5% 3.7%	65 100.0% 0.7%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table 8.1.1

EMPLOYMENT STATUS of CHEMISTS - MEN Only
according to HIGHEST DEGREE
1986 Survey of ACS Members

HIGHEST DEGREE	EMPLOYMENT STATUS						TOTAL
	Employed full-time	Employed part-time	Postdoc. or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response	
Bachelors	1,615 95.2% 21.9%	13 0.8% 17.8%	1 0.1% 0.7%	45 2.7% 36.0%	21 1.2% 30.9%	1 0.1% 5.0%	1,696 -Count 100.0% -% of Row 21.8% -% of Col
Masters	1,236 95.7% 16.8%	13 1.0% 17.8%	2 0.2% 1.4%	21 1.6% 16.8%	14 1.1% 20.6%	5 0.4% 25.0%	1,291 100.0% 16.6%
Doctorate	4,462 93.9% 60.6%	47 1.0% 64.4%	139 2.9% 97.2%	59 1.2% 47.2%	32 0.7% 47.1%	13 0.3% 65.0%	4,752 100.0% 61.0%
No Response	48 94.1% 0.7%	0 0.0% 0.0%	1 2.0% 0.7%	0 0.0% 0.0%	1 2.0% 1.5%	1 2.0% 5.0%	51 100.0% 0.7%
TOTAL	7,361 94.5% 100.0%	73 0.9% 100.0%	143 1.8% 100.0%	125 1.6% 100.0%	68 0.9% 100.0%	20 0.3% 100.0%	7,790 100.0% 100.0%

Table 8.1.2

EMPLOYMENT STATUS of CHEMISTS - WOMEN Only
according to HIGHEST DEGREE
1986 Survey of ACS Members

HIGHEST DEGREE	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. Un- or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response		
Bachelors	488 89.9% 36.3%	18 3.3% 25.0%	0 0.0% 0.0%	13 2.4% 41.9%	21 3.9% 53.8%	3 0.6% 50.0%	543	-Count 100.0% -% of Row 35.7% -% of Col
Masters	352 89.1% 26.2%	23 5.8% 31.9%	0 0.0% 0.0%	7 1.8% 22.6%	10 2.5% 25.6%	3 0.8% 50.0%	395	100.0% 25.9%
Doctorate	495 86.7% 36.8%	30 5.3% 41.7%	29 5.1% 100.0%	9 1.6% 29.0%	8 1.4% 20.5%	0 0.0% 0.0%	571	100.0% 37.5%
No Response	11 78.6% 0.8%	1 7.1% 1.4%	0 0.0% 0.0%	2 14.3% 6.5%	0 0.0% 0.0%	0 0.0% 0.0%	14	100.0% 0.9%
TOTAL	1,346 88.4% 100.0%	72 4.7% 100.0%	29 1.9% 100.0%	31 2.0% 100.0%	39 2.6% 100.0%	6 0.4% 100.0%	1,523	100.0% 100.0%

Table B.2.0.

EMPLOYMENT STATUS of ALL CHEMISTS
according to AGE
1986 Survey of ACS Members

AGE LEVEL	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc, Un- or other fellow,	Un- employed seeking	Un- employed Not seek.	No Response		
20-24	187 95.4% 2.1%	2 1.0% 1.4%	2 1.0% 1.2%	3 1.5% 1.9%	0 0.0% 0.0%	2 1.0% 7.4%	196 100.0% 2.1%	-Count -% of Row -% of Col
25-29	868 88.1% 10.0%	14 1.4% 9.6%	79 8.0% 45.9%	13 1.3% 8.3%	10 1.0% 9.3%	1 0.1% 3.7%	985 100.0% 10.6%	
30-34	1,360 91.7% 15.6%	19 1.3% 13.0%	68 4.6% 39.5%	18 1.2% 11.5%	14 0.9% 13.0%	4 0.3% 14.8%	1,483 100.0% 15.9%	
35-39	1,321 95.2% 15.1%	12 0.9% 8.2%	19 1.4% 11.0%	26 1.9% 16.7%	7 0.5% 6.5%	2 0.1% 7.4%	1,387 100.0% 14.9%	
40-44	1,609 96.3% 18.4%	20 1.2% 13.7%	3 0.2% 1.7%	27 1.6% 17.3%	5 0.3% 4.6%	7 0.4% 25.9%	1,671 100.0% 17.9%	
45-49	799 95.9% 9.2%	15 1.8% 10.3%	1 0.1% 0.6%	12 1.4% 7.7%	5 0.6% 4.6%	1 0.1% 3.7%	833 100.0% 8.9%	
50-54	875 96.3% 10.0%	11 1.2% 7.5%	0 0.0% 0.0%	14 1.5% 9.0%	8 0.9% 7.4%	1 0.1% 3.7%	909 100.0% 9.7%	
55-59	907 93.3% 10.4%	18 1.9% 12.3%	0 0.0% 0.0%	26 2.7% 16.7%	17 1.7% 15.7%	4 0.4% 14.8%	972 100.0% 10.4%	
60-64	513 89.7% 5.9%	18 3.1% 12.3%	0 0.0% 0.0%	14 2.4% 9.0%	26 4.5% 24.1%	1 0.2% 3.7%	572 100.0% 6.1%	
65-69	175 84.5% 2.0%	13 6.3% 8.9%	0 0.0% 0.0%	2 1.0% 1.3%	13 6.3% 12.0%	4 1.9% 14.8%	207 100.0% 2.2%	
>70	6 85.7% 0.1%	1 14.3% 0.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	7 100.0% 0.1%	
No Response	102 93.6% 1.2%	3 2.8% 2.1%	0 0.0% 0.0%	1 0.9% 0.6%	3 2.8% 2.8%	0 0.0% 0.0%	109 100.0% 1.2%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table 8.3.0

EMPLOYMENT STATUS of ALL CHEMISTS
according to RACE/ETHNICITY
1986 Survey of ACS Members

RACE/ETHNICITY	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or fellow,	Un- employed seeking	Un- employed Not seek.	No Response		
Black	96 92.3% 1.1%	2 1.9% 1.4%	1 1.0% 0.6%	3 2.9% 1.9%	1 1.0% 0.9%	1 1.0% 3.7%	104 100.0% 1.1%	-Count -% of Row -% of Col
Hispanic	89 93.7% 1.0%	0 0.0% 0.0%	3 3.2% 1.7%	3 3.2% 1.9%	0 0.0% 0.0%	0 0.0% 0.0%	95 100.0% 1.0%	
American Indian	13 86.7% 0.1%	1 6.7% 0.7%	0 0.0% 0.0%	1 6.7% 0.6%	0 0.0% 0.0%	0 0.0% 0.0%	15 100.0% 0.2%	
Asian	477 90.0% 5.5%	9 1.7% 6.2%	29 5.5% 16.9%	9 1.7% 5.8%	3 0.6% 2.8%	3 0.6% 11.1%	530 100.0% 5.7%	
White	7,905 93.7% 90.6%	131 1.6% 89.7%	137 1.6% 79.7%	138 1.6% 88.5%	101 1.2% 93.5%	22 0.3% 81.5%	8,434 100.0% 90.4%	
Other Race	42 91.3% 0.5%	2 4.3% 1.4%	1 2.2% 0.6%	1 2.2% 0.6%	0 0.0% 0.0%	0 0.0% 0.0%	46 100.0% 0.5%	
No Response	100 93.5% 1.1%	1 0.9% 0.7%	1 0.9% 0.6%	1 0.9% 0.6%	3 2.8% 2.8%	1 0.9% 3.7%	107 100.0% 1.1%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table B.4.0

EMPLOYMENT STATUS of ALL CHEMISTS
according to CITIZENSHIP
1986 Survey of ACS Members

CITIZENSHIP	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc, Un- or other fellow,	Un- employed seeking	Un- employed Not seek,	No Response		
U.S. Native	7,662 93.8% 87.8%	125 1.5% 85.6%	126 1.5% 73.3%	139 1.7% 89.1%	96 1.2% 88.9%	20 0.2% 74.1%	8,168 100.0% 87.5%	-Count -% of Row -% of Col
U.S. Naturalized	681 94.2% 7.8%	15 2.1% 10.3%	6 0.8% 3.5%	7 1.0% 4.5%	8 1.1% 7.4%	6 0.8% 22.2%	723 100.0% 7.7%	
U.S. Permanent Visa	311 92.3% 3.6%	3 0.9% 2.1%	11 3.3% 6.4%	9 2.7% 5.8%	2 0.6% 1.9%	1 0.3% 3.7%	337 100.0% 3.6%	
Other Visa	31 48.4% 0.4%	3 4.7% 2.1%	29 45.3% 16.9%	0 0.0% 0.0%	1 1.6% 0.9%	0 0.0% 0.0%	64 100.0% 0.7%	
No Response	37 94.9% 0.4%	0 0.0% 0.0%	0 0.0% 0.0%	1 2.6% 0.6%	1 2.6% 0.9%	0 0.0% 0.0%	39 100.0% 0.4%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table 8.5.0.

EMPLOYMENT STATUS of ALL CHEMISTS
according to TYPE OF EMPLOYER
1986 Survey of ACS Members

EMPLOYER TYPE	EMPLOYMENT STATUS						TOTAL
	Employed full-time	Employed part-time	Postdoc. Un- or other fellow,	Un- employed seeking	Un- employed Not seek.	No Response	
Industry	5,395 95.7% 61.9%	37 0.7% 25.3%	3 0.1% 1.7%	125 2.2% 80.1%	59 1.0% 54.6%	16 0.3% 59.3%	5,635 -Count 100.0% -% of Row 60.4% -% of Col
Government	884 96.1% 10.1%	10 1.1% 6.8%	16 1.7% 9.3%	3 0.3% 1.9%	6 0.7% 5.6%	1 0.1% 3.7%	920 100.0% 9.9%
Other	494 87.9% 5.7%	37 6.6% 25.3%	5 0.9% 2.9%	9 1.6% 5.8%	15 2.7% 13.9%	2 0.4% 7.4%	562 100.0% 6.0%
High School	116 92.1% 1.3%	3 2.4% 2.1%	0 0.0% 0.0%	2 1.6% 1.3%	4 3.2% 3.7%	1 0.8% 3.7%	126 100.0% 1.4%
College or University	1,677 88.0% 19.2%	53 2.8% 36.3%	137 7.2% 79.7%	19 0.8% 9.6%	19 1.0% 17.6%	5 0.3% 18.5%	1,906 100.0% 20.4%
No Response	156 85.7% 1.8%	6 3.3% 4.1%	11 6.0% 6.4%	2 1.1% 1.3%	5 2.7% 4.6%	2 1.1% 7.4%	182 100.0% 2.0%
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%

Table 8.5.1

EMPLOYMENT STATUS of INDUSTRIAL CHEMISTS
according to TYPE OF INDUSTRY
1986 Survey of ACS Members

TYPE OF INDUSTRY	EMPLOYMENT STATUS						TOTAL	
	Employed Full-time	Employed Part-time	Postdoc. Un- employed or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response		
Agricultural chemicals	381 96.2% 7.1%	1 0.3% 2.7%	0 0.0% 0.0%	6 1.5% 4.8%	8 2.0% 13.6%	0 0.0% 0.0%	396	-Count 100.0% -% of Row 7.0% -% of Col
Coatings	317 95.8% 5.9%	3 0.9% 8.1%	0 0.0% 0.0%	5 1.5% 4.0%	5 1.5% 8.5%	1 0.3% 6.3%	331	100.0% 5.9%
Food	202 95.7% 3.7%	1 0.5% 2.7%	0 0.0% 0.0%	4 1.9% 3.2%	4 1.9% 6.8%	0 0.0% 0.0%	211	100.0% 3.7%
Metals	151 93.8% 2.8%	0 0.0% 0.0%	0 0.0% 0.0%	7 4.3% 5.6%	3 1.9% 5.1%	0 0.0% 0.0%	161	100.0% 2.9%
Paper	87 98.9% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.1% 0.8%	0 0.0% 0.0%	0 0.0% 0.0%	88	100.0% 1.6%
Petroleum	345 95.0% 6.4%	2 0.6% 5.4%	0 0.0% 0.0%	8 2.2% 6.4%	4 1.1% 6.8%	4 1.1% 25.0%	363	100.0% 6.4%
Pharmaceuticals	963 97.1% 17.8%	5 0.5% 13.5%	1 0.1% 33.3%	13 1.3% 10.4%	6 0.6% 10.2%	4 0.4% 29.0%	992	100.0% 17.6%
Rubber	130 97.0% 2.4%	0 0.0% 0.0%	0 0.0% 0.0%	3 2.2% 2.4%	0 0.0% 0.0%	1 0.7% 6.3%	134	100.0% 2.4%
Soaps	139 97.9% 2.6%	0 0.0% 0.0%	0 0.0% 0.0%	2 1.4% 1.6%	1 0.7% 1.7%	0 0.0% 0.0%	142	100.0% 2.5%
Biochemical products	210 95.5% 3.9%	1 0.5% 2.7%	2 0.9% 66.7%	7 3.2% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	220	100.0% 3.9%
Electronics	289 94.8% 5.4%	1 0.3% 2.7%	0 0.0% 0.0%	11 3.6% 8.8%	2 0.7% 3.4%	2 0.7% 12.5%	305	100.0% 5.4%
Other chemicals	879 94.7% 16.3%	6 0.6% 16.2%	0 0.0% 0.0%	28 3.0% 22.4%	12 1.3% 20.3%	3 0.3% 18.8%	928	100.0% 16.5%
Other products	899 95.9% 16.7%	9 1.0% 24.3%	0 0.0% 0.0%	17 1.8% 13.6%	11 1.2% 18.6%	1 0.1% 6.3%	937	100.0% 16.6%
Non-mfg	403 94.4% 7.5%	8 1.9% 21.6%	0 0.0% 0.0%	13 3.0% 10.4%	3 0.7% 5.1%	0 0.0% 0.0%	427	100.0% 7.6%
No Response	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	***.0% 0.0%
TOTAL	5,395 95.7% 100.0%	37 0.7% 100.0%	3 0.1% 100.0%	125 2.2% 100.0%	59 1.0% 100.0%	16 0.3% 100.0%	5,635	100.0% 100.0%

Table 8.5.2

EMPLOYMENT STATUS OF ACADEMIC CHEMISTS
according to PRINCIPAL EMPLOYER
1986 Survey of ACS Members

PRINCIPAL EMPLOYER	EMPLOYMENT STATUS						TOTAL
	Employed full-time	Employed part-time	Postdoc. or fellow.	Un-employed seeking	Un-employed Not seek.	No Response	
Public	1,168 89.4% 65.1%	35 2.7% 62.5%	75 5.7% 54.7%	11 0.8% 64.7%	12 0.9% 52.2%	5 0.4% 83.3%	1,306 -Count 100.0% -% of Row 64.3% -% of Col
Private	555 87.3% 31.0%	19 3.0% 33.9%	48 7.5% 35.0%	5 0.8% 29.4%	9 1.4% 39.1%	0 0.0% 0.0%	636 100.0% 31.3%
No Response	70 77.8% 3.9%	2 2.2% 3.6%	14 15.6% 10.2%	1 1.1% 5.9%	2 2.2% 8.7%	1 1.1% 16.7%	90 100.0% 4.4%
TOTAL	1,793 88.2% 100.0%	56 2.8% 100.0%	137 6.7% 100.0%	17 0.8% 100.0%	23 1.1% 100.0%	6 0.3% 100.0%	2,032 100.0% 100.0%

Table 8.6.0

EMPLOYMENT STATUS of NON-ACADEMIC CHEMISTS
according to WORK FUNCTION
1986 Survey of ACS Members

WORK FUNCTION	EMPLOYMENT STATUS							TOTAL	
	Employed full-time	Employed part-time	Postdoc, Un- or other fellow,	Un-employed seeking	Un-employed not seek.	No Response			
Mgt-R&D	1,048 96.2% 15.5%	7 0.6% 8.3%	0 0.0% 0.0%	17 1.6% 12.4%	14 1.3% 17.5%	3 0.3% 15.8%	1,089	-Count	
								% of Row	
								% of Col	
Basic Research	960 95.3% 14.2%	7 0.7% 8.3%	21 2.1% 87.5%	11 1.1% 8.0%	6 0.6% 7.5%	2 0.2% 10.5%	1,007		
Applied Research	2,249 96.7% 33.2%	12 0.5% 14.3%	3 0.1% 12.5%	40 1.7% 29.2%	18 0.8% 22.5%	4 0.2% 21.1%	2,326		
General Mgt	560 95.2% 8.3%	1 0.2% 1.2%	0 0.0% 0.0%	15 2.6% 10.9%	11 1.9% 13.8%	1 0.2% 5.3%	588		
Marketing	382 95.3% 5.6%	2 0.5% 2.4%	0 0.0% 0.0%	14 3.5% 10.2%	2 0.5% 2.5%	1 0.2% 5.3%	401		
Prod & QC	614 94.2% 9.1%	6 0.9% 7.1%	0 0.0% 0.0%	23 3.5% 16.8%	7 1.1% 8.8%	2 0.3% 10.5%	652		
Forensics	305 94.7% 4.5%	4 1.2% 4.8%	0 0.0% 0.0%	4 1.2% 2.9%	8 2.5% 10.0%	1 0.3% 5.3%	322		
Writing	56 90.3% 0.8%	4 6.5% 4.8%	0 0.0% 0.0%	0 0.0% 0.0%	2 3.2% 2.5%	0 0.0% 0.0%	62		
								0.9%	
Chemical Information	77 92.8% 1.1%	2 2.4% 2.4%	0 0.0% 0.0%	3 3.6% 2.2%	1 1.2% 1.3%	0 0.0% 0.0%	83		
								1.2%	
Computer	69 95.0% 1.0%	1 1.4% 1.2%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 2.8% 10.5%	72		
								1.0%	
Consulting	145 80.1% 2.1%	29 16.0% 34.5%	0 0.0% 0.0%	2 1.1% 1.5%	5 2.8% 6.3%	0 0.0% 0.0%	181		
								2.5%	
Other	276 91.7% 4.1%	9 3.0% 10.7%	0 0.0% 0.0%	7 2.3% 5.1%	6 2.0% 7.5%	3 1.0% 15.8%	301		
								4.2%	
No Response	32 97.0% 0.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 3.0% 0.7%	0 0.0% 0.0%	0 0.0% 0.0%	33		
								0.5%	
TOTAL	6,773 95.2% 100.0%	84 1.2% 100.0%	24 0.3% 100.0%	137 1.9% 100.0%	80 1.1% 100.0%	19 0.3% 100.0%	7,117		
								100.0%	

Table 8.7.0

EMPLOYMENT STATUS of ALL CHEMISTS
according to WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. Un- or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response		
Biochemistry	557 88.6% 6.4%	17 2.7% 11.6%	43 6.8% 25.0%	5 0.8% 3.2%	6 1.0% 5.6%	1 0.2% 3.7%	629 100.0% 6.7%	-Count -% of Row -% of Col
Biotechnology	180 94.2% 2.1%	1 0.5% 0.7%	3 1.6% 1.7%	6 3.1% 3.8%	1 0.5% 0.9%	0 0.0% 0.0%	191 100.0% 2.0%	
General chemistry	435 92.0% 5.0%	15 3.2% 10.3%	0 0.0% 0.0%	10 2.1% 6.4%	11 2.3% 10.2%	2 0.4% 7.4%	473 100.0% 5.1%	
Analytical chemistry	1,790 95.6% 20.5%	19 1.0% 13.0%	10 0.5% 5.8%	30 1.6% 19.2%	19 1.0% 17.6%	5 0.3% 18.5%	1,873 100.0% 20.1%	
Inorganic chemistry	447 90.5% 5.1%	5 1.0% 3.4%	26 5.3% 15.1%	11 2.2% 7.1%	5 1.0% 4.6%	0 0.0% 0.0%	494 100.0% 5.3%	
Organic chemistry	1,202 93.3% 13.8%	13 1.0% 8.9%	33 2.6% 19.2%	22 1.7% 14.1%	17 1.3% 19.7%	1 0.1% 3.7%	1,288 100.0% 13.8%	
Polymer chemistry	1,090 95.5% 12.5%	10 0.9% 6.8%	7 0.6% 4.1%	21 1.8% 13.5%	9 0.8% 8.3%	4 0.4% 14.8%	1,141 100.0% 12.2%	
Pharmaceutical chemistry	292 95.1% 3.3%	3 1.0% 2.1%	4 1.3% 2.3%	5 1.6% 3.2%	3 1.0% 2.8%	0 0.0% 0.0%	307 100.0% 3.3%	
Medicinal/ clinical chemistry	299 90.1% 3.4%	8 2.4% 5.5%	11 3.3% 6.4%	6 1.8% 3.8%	4 1.2% 3.7%	4 1.2% 14.8%	332 100.0% 3.6%	
Theoretical chemistry	73 91.3% 0.8%	0 0.0% 0.0%	6 7.5% 3.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.3% 3.7%	80 100.0% 0.9%	
Environmental chemistry	569 94.2% 6.5%	13 2.2% 8.9%	2 0.3% 1.2%	11 1.8% 7.1%	8 1.3% 7.4%	1 0.2% 3.7%	604 100.0% 6.5%	
Agricultural/ food chemistry	298 95.8% 3.4%	5 1.6% 3.4%	4 1.3% 2.3%	1 0.3% 0.6%	3 1.0% 7.8%	0 0.0% 0.0%	311 100.0% 3.3%	
Physical chemistry	589 93.0% 6.8%	7 1.1% 4.8%	19 3.0% 11.0%	11 1.7% 7.1%	7 1.1% 6.5%	0 0.0% 0.0%	633 100.0% 6.8%	
Other chemistry	308 91.7% 3.5%	10 3.0% 6.8%	3 0.9% 1.7%	5 1.5% 3.2%	9 2.7% 8.3%	1 0.3% 3.7%	336 100.0% 3.6%	
Non-chemistry	593 92.8% 6.8%	20 3.1% 13.7%	1 0.2% 0.6%	12 1.9% 7.7%	6 0.9% 5.6%	7 1.1% 25.9%	639 100.0% 6.8%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table 8.8.0

EMPLOYMENT STATUS of ALL CHEMISTS
according to GEOGRAPHIC REGION
1986 Survey of ACS Members

GEOGRAPHIC REGION	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response		
Pacific	1,047 93.2% 12.0%	20 1.8% 13.7%	28 2.5% 16.3%	12 1.1% 7.7%	12 1.1% 11.1%	4 0.4% 14.8%	1,123 -Count 100.0% -% of Row 12.0% -% of Col	
Mountain	333 92.2% 3.8%	6 1.7% 4.1%	13 3.6% 7.6%	6 1.7% 3.8%	3 0.8% 2.8%	0 0.0% 0.0%	361 100.0% 3.9%	
W.N. Central	527 93.3% 6.0%	10 1.8% 6.8%	13 2.3% 7.6%	8 1.4% 5.1%	6 1.1% 5.6%	1 0.2% 3.7%	565 100.0% 6.1%	
W.S. Central	661 93.1% 7.6%	5 0.7% 3.4%	9 1.3% 5.2%	19 2.7% 12.2%	13 1.8% 12.0%	3 0.4% 11.1%	710 100.0% 7.6%	
E.N. Central	1,762 94.4% 20.2%	23 1.2% 15.8%	37 2.0% 21.5%	21 1.1% 13.5%	21 1.1% 19.4%	3 0.2% 11.1%	1,867 100.0% 20.0%	
E.S. Central	316 94.3% 3.6%	7 2.1% 4.8%	0 0.0% 0.0%	5 1.5% 3.2%	6 1.8% 5.6%	1 0.3% 1.7%	335 100.0% 3.6%	
Mid-Atlantic	1,982 93.4% 22.7%	37 1.7% 25.3%	24 1.1% 14.0%	49 2.3% 31.4%	19 0.9% 17.6%	10 0.5% 37.0%	2,121 100.0% 22.7%	
So. Atlantic	1,347 94.0% 15.4%	21 1.5% 14.4%	22 1.5% 12.8%	21 1.5% 13.5%	19 1.3% 17.6%	3 0.2% 11.1%	1,433 100.0% 15.4%	
New England	613 91.8% 7.0%	12 1.8% 8.2%	23 3.4% 13.4%	12 1.8% 7.7%	8 1.2% 7.4%	0 0.0% 0.0%	668 100.0% 7.2%	
No Response	134 90.5% 1.5%	5 3.4% 3.4%	3 2.0% 1.7%	3 2.0% 1.9%	1 0.7% 0.9%	2 1.4% 7.4%	148 100.0% 1.6%	
TOTAL	8,722 93.5% 100.0%	146 1.6% 100.0%	172 1.8% 100.0%	156 1.7% 100.0%	108 1.2% 100.0%	27 0.3% 100.0%	9,331 100.0% 100.0%	

Table 9.1.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986
 according to HIGHEST DEGREE
 1986 Survey of ACS Members

HIGHEST DEGREE	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Bachelors	11 11.0% 45.8%	22 22.0% 36.1%	11 11.0% 37.9%	15 15.0% 38.5%	31 31.0% 37.8%	10 10.0% 34.5%	100 100.0% 37.9%	-Count -% of Row -% of Col
Masters	4 7.7% 16.7%	8 15.4% 13.1%	4 7.7% 13.8%	12 23.1% 30.8%	18 34.6% 22.0%	6 11.5% 20.7%	52 100.0% 19.7%	
Doctorate	9 8.3% 37.5%	30 27.5% 49.2%	14 12.8% 48.3%	12 11.0% 30.8%	31 28.4% 37.8%	13 11.9% 44.8%	109 100.0% 41.3%	
No Response	0 0.0% 0.0%	1 33.3% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	2 66.7% 2.4%	0 0.0% 0.0%	3 100.0% 1.1%	
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264 100.0% 100.0%	

Table 9.1.1

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986 - MEN Only
 according to HIGHEST DEGREE
 1986 Survey of ACS Members

HIGHEST DEGREE	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Bachelors	9 13.6% 42.9%	16 24.2% 33.3%	8 12.1% 34.8%	11 16.7% 37.9%	16 24.2% 31.4%	6 9.1% 28.6%	66 100.0% 34.2%	-Count -% of Row -% of Col
Masters	4 11.4% 19.0%	7 20.0% 14.6%	2 5.7% 8.7%	8 22.9% 27.6%	9 25.7% 17.6%	5 14.3% 23.8%	35 100.0% 18.1%	
Doctorate	8 8.8% 38.1%	25 27.5% 52.1%	13 14.3% 56.5%	10 11.0% 34.5%	25 27.5% 49.0%	10 11.0% 47.6%	91 100.0% 47.2%	
No Response	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 2.0%	0 0.0% 0.0%	1 100.0% 0.5%	
TOTAL	21 10.9% 100.0%	48 24.9% 100.0%	23 11.9% 100.0%	29 15.0% 100.0%	51 26.4% 100.0%	21 10.9% 100.0%	193 100.0% 100.0%	

Table 9.1.2

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986 - WOMEN Only
 according to HIGHEST DEGREE
 1986 Survey of ACS Members

HIGHEST DEGREE	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Bachelors	2 5.9% 66.7%	6 17.6% 46.2%	3 8.8% 50.0%	4 11.8% 40.0%	15 44.1% 48.4%	4 11.8% 57.1%	34 100.0% 48.6%	-Count -% of Row -% of Col
Masters	0 0.0% 0.0%	1 5.9% 7.7%	2 11.8% 33.3%	4 23.5% 40.0%	9 52.9% 29.0%	1 5.9% 14.3%	17 100.0% 24.3%	
Doctorate	1 5.9% 33.3%	5 29.4% 38.5%	1 5.9% 16.7%	2 11.8% 20.0%	6 35.3% 19.4%	2 11.8% 28.6%	17 100.0% 24.3%	
No Response	0 0.0% 0.0%	1 50.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 3.2%	0 0.0% 0.0%	2 100.0% 2.9%	
TOTAL	3 4.3% 100.0%	13 18.6% 100.0%	6 8.6% 100.0%	10 14.3% 100.0%	31 44.3% 100.0%	7 10.0% 100.0%	70 100.0% 100.0%	

Table 9.2.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986
according to AGE
1986 Survey of ACS Members

AGE LEVEL	MONTHS UNEMPLOYED						TOTAL
	<=1	1-3	4-6	7-12	>=12	No Response	
20-24	2 66.7% 8.3%	1 33.3% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 -Count 100.0% -% of Row 1.1% -% of Col
25-29	2 8.7% 8.3%	3 13.0% 4.9%	6 26.1% 20.7%	4 17.4% 10.3%	5 21.7% 6.1%	3 13.0% 10.3%	23 100.0% 8.7%
30-34	3 9.4% 12.5%	9 28.1% 14.8%	3 9.4% 10.3%	4 12.5% 10.3%	12 37.5% 14.6%	1 3.1% 3.4%	32 100.0% 12.1%
35-39	3 9.1% 12.5%	7 21.2% 11.5%	3 9.1% 10.3%	6 18.2% 15.4%	8 24.2% 9.8%	6 18.2% 20.7%	33 100.0% 12.5%
40-44	5 19.6% 20.8%	10 31.3% 16.4%	3 9.4% 10.3%	7 21.9% 17.9%	7 21.9% 8.5%	0 0.0% 0.0%	32 100.0% 12.1%
45-49	0 0.0% 0.0%	6 35.3% 9.8%	5 29.4% 17.2%	2 11.8% 5.1%	3 17.6% 3.7%	1 5.9% 3.4%	17 100.0% 6.4%
50-54	2 9.1% 8.3%	3 13.6% 4.9%	2 9.1% 6.9%	2 9.1% 5.1%	11 50.0% 13.4%	2 9.1% 6.9%	22 100.0% 8.3%
55-59	4 9.3% 16.7%	10 23.3% 16.4%	2 4.7% 6.9%	7 16.3% 17.9%	18 41.9% 22.0%	2 4.7% 6.9%	43 100.0% 16.3%
60-64	2 5.0% 8.3%	8 20.0% 13.1%	5 12.5% 17.2%	5 12.5% 12.8%	11 27.5% 13.4%	9 22.5% 31.0%	40 100.0% 15.2%
65-69	1 6.7% 4.2%	3 20.0% 4.9%	0 0.0% 0.0%	1 6.7% 2.6%	6 40.0% 7.3%	4 26.7% 13.8%	15 100.0% 5.7%
>=70	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
No Response	0 0.0% 0.0%	1 25.0% 1.6%	0 0.0% 0.0%	1 25.0% 2.6%	1 25.0% 1.2%	1 25.0% 3.4%	4 100.0% 1.5%
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264 100.0%

Table 9.3.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986
according to NON-ACADEMIC WORK FUNCTION
1986 Survey of ACS Members

WORK FUNCTION	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Mgt-R&D	3 9.7% 13.0%	8 25.8% 15.1%	4 12.9% 14.3%	2 6.5% 6.7%	8 25.8% 13.1%	6 19.4% 27.3%	31 100.0% 14.3%	-Count -% of Row -% of Col
Basic Research	2 11.8% 8.7%	4 23.5% 7.5%	2 11.8% 7.1%	3 17.6% 10.0%	4 23.5% 6.6%	2 11.8% 9.1%	17 100.0% 7.8%	
Applied Research	6 10.3% 26.1%	14 24.1% 26.4%	5 8.6% 17.9%	10 17.2% 33.3%	18 31.0% 29.5%	5 8.6% 22.7%	56 100.0% 26.7%	
General Mgt	2 7.7% 8.7%	3 11.5% 5.7%	5 19.2% 17.9%	4 15.4% 13.3%	9 34.6% 14.8%	3 11.5% 13.6%	26 100.0% 12.0%	
Marketing	3 18.8% 13.0%	5 31.3% 9.4%	2 12.5% 7.1%	3 18.8% 10.0%	2 12.5% 3.3%	1 6.3% 4.5%	16 100.0% 7.4%	
Prod & QC	4 13.3% 17.4%	9 30.0% 17.0%	5 16.7% 17.9%	3 10.0% 10.0%	7 23.3% 11.5%	2 6.7% 9.1%	30 100.0% 13.8%	
Forensics	0 0.0% 0.0%	0 0.0% 0.0%	3 25.0% 10.7%	1 8.3% 3.3%	6 50.0% 9.8%	2 16.7% 9.1%	12 100.0% 5.5%	
Writing	0 0.0% 0.0%	1 50.0% 1.9%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 1.6%	0 0.0% 0.0%	2 100.0% 0.9%	
Chemical Information	0 0.0% 0.0%	2 50.0% 3.6%	0 0.0% 0.0%	1 25.0% 3.3%	0 0.0% 0.0%	1 25.0% 4.5%	4 100.0% 1.8%	
Computer	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	
Consulting	0 0.0% 0.0%	2 28.6% 3.8%	1 14.3% 3.6%	3 42.9% 10.0%	1 14.3% 1.6%	0 0.0% 0.0%	7 100.0% 3.2%	
Other	3 23.1% 13.0%	5 38.5% 9.4%	0 0.0% 0.0%	0 0.0% 0.0%	5 38.5% 8.2%	0 0.0% 0.0%	13 100.0% 6.0%	
No Response	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 3.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.5%	
TOTAL	23 10.6% 100.0%	51 24.4% 100.0%	26 12.4% 100.0%	30 13.8% 100.0%	61 28.1% 100.0%	22 10.1% 100.0%	217 100.0% 100.0%	

Table 9.4.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986
according to WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	MONTHS UNEMPLOYED						TOTAL	
	<=1	1-3	4-6	7-12	>=12	No Response		
Biochemistry	1 9.1% 4.2%	1 9.1% 1.6%	1 9.1% 3.4%	1 9.1% 2.6%	7 63.6% 8.5%	0 0.0% 0.0%	11 100.0% 4.2%	-Count -% of Row -% of Col
Biotechnology	0 0.0% 0.0%	1 14.3% 1.6%	3 42.9% 10.3%	0 0.0% 0.0%	2 28.6% 2.4%	1 14.3% 3.4%	7 100.0% 2.7%	
General chemistry	1 4.8% 4.2%	5 23.8% 8.2%	0 0.0% 0.0%	5 23.8% 12.8%	9 42.9% 11.0%	1 4.8% 3.4%	21 100.0% 8.0%	
Analytical chemistry	6 12.2% 25.0%	10 20.4% 16.4%	8 16.3% 27.6%	9 18.4% 23.1%	12 24.5% 14.6%	4 8.2% 13.8%	49 100.0% 18.8%	
Inorganic chemistry	2 12.5% 8.3%	6 37.5% 9.0%	2 12.5% 6.9%	3 18.8% 7.7%	1 6.3% 1.2%	2 12.5% 6.9%	14 100.0% 6.1%	
Organic chemistry	7 17.9% 29.2%	10 25.6% 16.4%	2 5.1% 6.9%	9 23.1% 23.1%	9 23.1% 11.0%	2 5.1% 6.9%	39 100.0% 14.8%	
Polymer chemistry	2 6.7% 8.3%	7 23.3% 11.5%	7 23.3% 24.1%	2 6.7% 5.1%	7 23.3% 8.5%	5 16.7% 17.2%	30 100.0% 11.4%	
Pharmaceutical chemistry	0 0.0% 0.0%	2 25.0% 3.3%	0 0.0% 0.0%	2 25.0% 5.1%	3 37.5% 3.7%	1 12.5% 3.4%	8 100.0% 3.0%	
Medicinal/clinical chemistry	0 0.0% 0.0%	1 10.0% 1.6%	2 20.0% 6.9%	1 10.0% 2.6%	5 50.0% 6.1%	1 10.0% 3.4%	10 100.0% 3.8%	
Theoretical chemistry	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	
Environmental chemistry	2 10.5% 8.3%	4 21.1% 6.6%	1 5.3% 3.4%	0 0.0% 0.0%	9 47.4% 11.0%	3 15.8% 10.3%	19 100.0% 7.2%	
Agricultural/food chemistry	0 0.0% 0.0%	2 50.0% 3.3%	1 25.0% 3.4%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 3.4%	4 100.0% 1.5%	
Physical chemistry	1 5.6% 4.2%	7 38.9% 11.5%	0 0.0% 0.0%	2 11.1% 5.1%	4 22.2% 4.9%	4 22.2% 13.8%	18 100.0% 6.8%	
Other chemistry	0 0.0% 0.0%	3 21.4% 4.9%	0 0.0% 0.0%	2 14.3% 5.1%	7 50.0% 8.5%	2 14.3% 6.9%	14 100.0% 5.3%	
Non-chemistry	2 11.1% 8.3%	2 11.1% 3.3%	2 11.1% 6.9%	3 16.7% 7.7%	7 38.9% 8.5%	2 11.1% 6.9%	18 100.0% 6.8%	
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264 100.0% 100.0%	

Table 9.5.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986
according to GEOGRAPHIC REGION
1986 Survey of ACS Members

GEOGRAPHIC REGION	MONTHS UNEMPLOYED						TOTAL	
	<=1	1-3	4-6	7-12	>=12	No Response		
Pacific	1 4.2% 4.2%	6 25.0% 9.8%	1 4.2% 3.4%	7 29.2% 17.9%	7 29.2% 8.5%	2 8.3% 6.9%	24 100.0% 9.1%	-Count -% of Row -% of Col
Mountain	0 0.0% 0.0%	4 44.4% 6.6%	2 22.2% 6.9%	1 11.1% 2.6%	1 11.1% 1.2%	1 11.1% 3.4%	9 100.0% 3.4%	
W.N. Central	2 14.3% 8.3%	4 28.6% 6.6%	1 7.1% 3.4%	2 14.3% 5.1%	3 21.4% 3.7%	2 14.3% 6.9%	14 100.0% 5.3%	
W.S. Central	3 9.4% 12.5%	4 12.5% 6.6%	5 15.6% 17.2%	4 12.5% 10.3%	14 43.8% 17.1%	2 6.3% 6.9%	32 100.0% 12.1%	
E.N. Central	0 0.0% 0.0%	4 33.3% 23.0%	3 7.1% 10.3%	6 14.3% 15.4%	13 31.0% 15.9%	6 14.3% 20.7%	42 100.0% 15.9%	
E.S. Central	1 9.1% 4.2%	3 27.3% 4.9%	2 18.2% 6.9%	1 9.1% 2.6%	3 27.3% 3.7%	1 9.1% 3.4%	11 100.0% 4.2%	
Mid-Atlantic	8 11.8% 33.3%	13 19.1% 21.3%	9 13.2% 31.0%	10 14.7% 25.6%	22 32.4% 26.8%	6 8.8% 20.7%	68 100.0% 25.8%	
So. Atlantic	5 12.5% 20.8%	6 15.0% 9.8%	3 7.5% 10.3%	5 12.5% 12.8%	15 37.5% 18.3%	6 15.0% 20.7%	40 100.0% 15.2%	
New England	3 15.0% 12.5%	7 35.0% 11.5%	2 10.0% 6.9%	3 15.0% 7.7%	4 20.0% 4.9%	1 5.0% 3.4%	20 100.0% 7.6%	
No Response	1 25.0% 4.2%	0 0.0% 0.0%	1 25.0% 3.4%	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 6.9%	4 100.0% 1.5%	
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264 100.0% 100.0%	

Table 10.1.0

ALL RESPONDENTS
according to SEX and HIGHEST DEGREE
1986 Survey of ACS Members

SEX	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Men	2,055	1,629	5,345	64	9,093	+Count
	22.6%	17.9%	58.8%	0.7%	100.0%	-% of Row
	77.9%	78.2%	89.4%	67.4%	84.2%	-% of Col
Women	581	449	621	17	1,668	
	34.8%	26.9%	37.2%	1.0%	100.0%	
	22.0%	21.5%	10.4%	17.9%	15.5%	
No Response	3	6	11	14	34	
	8.8%	17.6%	32.4%	41.2%	100.0%	
	0.1%	0.3%	0.2%	14.7%	0.3%	
TOTAL	2,639	2,084	5,977	95	10,795	
	24.4%	19.3%	55.4%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.2.0

ALL RESPONDENTS
according to AGE and HIGHEST DEGREE
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	191 88.8% 7.2%	15 7.0% 0.7%	9 4.2% 0.2%	0 0.0% 0.0%	215 100.0% 2.0%	-Count -% of Row -% of Col
25-29	492 45.2% 18.6%	238 21.9% 11.4%	351 32.3% 5.9%	7 0.6% 7.4%	1,088 100.0% 10.1%	
30-34	419 25.0% 15.9%	386 23.1% 18.5%	857 51.2% 14.3%	11 0.7% 11.6%	1,673 100.0% 15.5%	
35-39	306 19.5% 11.6%	344 22.0% 16.5%	908 57.9% 15.2%	9 0.6% 9.5%	1,567 100.0% 14.5%	
40-44	290 15.4% 11.0%	344 18.2% 16.5%	1,238 65.7% 20.7%	13 0.7% 13.7%	1,885 100.0% 17.5%	
45-49	149 15.5% 5.6%	140 14.6% 6.7%	657 68.4% 11.0%	14 1.5% 14.7%	960 100.0% 8.9%	
50-54	192 18.1% 7.3%	164 15.5% 7.9%	697 65.8% 11.7%	7 0.7% 7.4%	1,060 100.0% 9.8%	
55-59	296 24.8% 11.2%	241 20.2% 11.6%	650 54.5% 10.9%	6 0.5% 6.3%	1,193 100.0% 11.1%	
60-64	208 28.1% 7.9%	142 19.2% 6.8%	380 51.3% 6.4%	11 1.5% 11.6%	741 100.0% 6.9%	
65-69	61 23.6% 2.3%	44 17.1% 2.1%	151 58.5% 2.5%	2 0.8% 2.1%	258 100.0% 2.4%	
70+	0 0.0% 0.0%	0 0.0% 0.0%	7 100.0% 0.1%	0 0.0% 0.0%	7 100.0% 0.1%	
No Response	35 23.6% 1.3%	26 17.6% 1.2%	72 48.6% 1.2%	16 10.1% 15.8%	149 100.0% 1.4%	
TOTAL	2,639 24.4% 100.0%	2,086 19.3% 100.0%	5,977 55.4% 100.0%	95 0.9% 100.0%	10,797 100.0% 100.0%	

Table 10.2.1

RESPONDENTS - Men only
according to AGE and HIGHEST DEGREE
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	102	6	5	0	113	-Count
	90.1%	5.3%	4.4%	0.0%	100.0%	-% of Row
	5.0%	0.4%	0.1%	0.0%	1.2%	-% of Col
25-29	313	142	270	6	731	
	42.8%	19.4%	36.9%	0.8%	100.0%	
	16.2%	8.7%	5.1%	0.4%	8.0%	
30-34	301	284	717	7	1,309	
	23.0%	21.7%	54.8%	0.5%	100.0%	
	14.6%	17.4%	13.4%	10.9%	14.4%	
35-39	253	269	797	6	1,325	
	19.1%	20.3%	60.2%	0.5%	100.0%	
	12.3%	16.5%	14.9%	0.4%	14.6%	
40-44	242	275	1,121	9	1,647	
	14.7%	16.7%	68.1%	0.5%	100.0%	
	11.8%	16.9%	21.0%	14.1%	18.1%	
45-49	129	110	591	14	844	
	15.3%	13.0%	70.0%	1.7%	100.0%	
	6.3%	6.8%	11.1%	21.9%	9.3%	
50-54	169	136	659	6	970	
	17.4%	14.0%	67.9%	0.6%	100.0%	
	8.2%	8.3%	12.3%	0.4%	10.7%	
55-59	269	220	611	5	1,105	
	24.3%	19.9%	55.3%	0.5%	100.0%	
	13.1%	13.5%	11.4%	7.8%	12.2%	
60-64	189	126	360	9	684	
	27.6%	18.4%	52.6%	1.3%	100.0%	
	9.2%	7.7%	6.7%	14.1%	7.5%	
65-69	99	40	145	2	246	
	24.0%	16.3%	58.9%	0.8%	100.0%	
	2.9%	2.5%	2.7%	3.1%	2.7%	
70+	0	0	6	0	6	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.1%	0.0%	0.1%	
No Response	29	21	83	0	113	
	25.7%	18.6%	55.0%	0.0%	100.0%	
	1.4%	1.3%	1.2%	0.0%	1.2%	
TOTAL	2,095	1,629	5,345	64	9,093	
	22.6%	17.9%	58.8%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.2.2

RESPONDENTS - Women only
according to AGE and HIGHEST DEGREE
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL
	Bachelors	Masters	Doctorate	No Response	
20-24	89 89.0% 15.3%	9 9.0% 2.0%	2 2.0% 0.3%	0 0.0% 0.0%	100 -Count 100.0% -% of Row 6.0% -% of Col
25-29	178 50.0% 30.6%	96 27.0% 21.4%	81 22.8% 13.0%	1 0.3% 5.9%	356 100.0% 21.3%
30-34	117 32.2% 20.1%	102 28.1% 22.7%	140 38.6% 22.5%	4 1.1% 23.5%	363 100.0% 21.8%
35-39	53 22.0% 9.1%	75 31.1% 16.7%	110 45.6% 17.7%	3 1.2% 17.6%	241 100.0% 14.4%
40-44	48 20.4% 8.3%	68 28.9% 15.1%	115 48.9% 18.5%	4 1.7% 23.5%	235 100.0% 14.1%
45-49	20 17.2% 3.4%	30 25.9% 6.7%	66 56.9% 10.6%	0 0.0% 0.0%	116 100.0% 7.0%
50-54	23 25.8% 4.0%	28 31.5% 6.2%	37 41.6% 9.0%	1 1.1% 5.9%	89 100.0% 5.3%
55-59	27 31.4% 4.6%	19 22.1% 4.2%	39 45.3% 6.3%	1 1.2% 5.9%	86 100.0% 5.2%
60-64	18 22.7% 3.1%	15 27.3% 3.3%	20 36.4% 3.2%	2 3.6% 11.8%	55 100.0% 3.3%
65-69	2 16.7% 0.3%	4 33.3% 0.9%	6 50.0% 1.0%	0 0.0% 0.0%	12 100.0% 0.7%
70+	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.2%	0 0.0% 0.0%	1 100.0% 0.1%
No Response	6 42.9% 1.0%	3 21.4% 0.7%	4 28.6% 0.6%	1 7.1% 5.9%	14 100.0% 0.8%
TOTAL	581 34.8% 100.0%	449 26.9% 100.0%	621 37.2% 100.0%	17 1.0% 100.0%	1,668 100.0% 100.0%

Table 10.3.0

ALL RESPONDENTS
according to WORK SPECIALTY and HIGHEST DEGREE
1986 Survey of ACS Members

WORK SPECIALTY	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No		
				Response		
Chemical engineering	207 29.3% 7.8%	177 25.1% 8.5%	318 45.0% 5.3%	4 0.6% 4.2%	706 100.0% 6.5%	-Count -% of Row -% of Col
Biochemistry	54 8.6% 2.0%	58 9.2% 2.8%	514 81.7% 8.6%	3 0.5% 3.2%	629 100.0% 5.8%	
Biotechnology	28 14.7% 1.1%	33 17.3% 1.6%	129 67.5% 2.2%	1 0.5% 1.1%	191 100.0% 1.8%	
General chemistry	119 25.2% 4.5%	151 31.9% 7.2%	201 42.5% 3.4%	2 0.4% 2.1%	473 100.0% 4.4%	
Analytical chemistry	734 39.2% 27.8%	429 22.9% 20.6%	703 37.5% 11.8%	7 0.4% 7.4%	1,873 100.0% 17.4%	
Inorganic chemistry	64 13.0% 2.4%	45 9.1% 2.2%	381 77.1% 6.4%	4 0.8% 4.2%	494 100.0% 4.6%	
Organic chemistry	215 16.7% 8.1%	192 14.9% 9.2%	872 67.7% 14.6%	9 0.7% 9.5%	1,288 100.0% 11.9%	
Polymer chemistry	325 28.5% 12.3%	207 18.1% 9.9%	598 52.4% 10.0%	11 1.0% 11.6%	1,141 100.0% 10.6%	
Pharmaceutical chemistry	88 28.7% 3.3%	51 16.6% 2.4%	165 53.7% 2.8%	3 1.0% 3.2%	307 100.0% 2.8%	
Medicinal/clinical chemistry	44 13.3% 1.7%	52 15.7% 2.5%	233 70.2% 3.9%	3 0.9% 3.2%	332 100.0% 3.1%	
Theoretical chemistry	3 3.8% 0.1%	2 2.5% 0.1%	73 91.3% 1.2%	2 2.5% 2.1%	80 100.0% 0.7%	
Environmental chemistry	202 33.4% 7.7%	155 25.7% 7.4%	241 39.9% 4.0%	6 1.0% 6.3%	604 100.0% 5.6%	
Agricultural/food chemistry	61 19.6% 2.3%	53 17.0% 2.5%	194 62.4% 3.2%	3 1.0% 3.2%	311 100.0% 2.9%	
Physical chemistry	57 9.0% 2.2%	51 8.1% 2.4%	521 82.3% 8.7%	4 0.6% 4.2%	633 100.0% 5.9%	
Other chemistry	83 24.7% 3.1%	89 26.5% 4.3%	161 47.9% 2.7%	3 0.9% 3.2%	336 100.0% 3.1%	
Non-chemistry	227 25.3% 8.6%	226 25.2% 10.8%	436 48.7% 7.3%	7 0.8% 7.4%	896 100.0% 8.3%	
No Response	128 25.5% 4.9%	113 22.6% 5.4%	237 47.3% 4.0%	23 4.6% 24.2%	501 100.0% 4.6%	
TOTAL	2,639 24.4% 100.0%	2,084 19.3% 100.0%	5,977 55.4% 100.0%	95 0.9% 100.0%	10,795 100.0% 100.0%	

Table 10.4.0

ALL RESPONDENTS
according to RACE/ETHNICITY and HIGHEST DEGREE
1986 Survey of ACS Members

RACE/ETHNICITY	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Black	30	31	58	1	120	-Count
	25.0%	25.8%	48.3%	0.8%	100.0%	-% of Row
	1.1%	1.5%	1.0%	1.1%	1.1%	-% of Col
Hispanic	38	23	54	0	115	
	33.0%	20.0%	47.0%	0.0%	100.0%	
	1.4%	1.1%	0.9%	0.0%	1.1%	
American Indian	7	1	8	0	16	
	43.8%	6.3%	50.0%	0.0%	100.0%	
	0.3%	0.0%	0.1%	0.0%	0.1%	
Asian	72	91	445	6	614	
	11.7%	14.8%	72.5%	1.0%	100.0%	
	2.7%	4.4%	7.4%	6.3%	5.7%	
White	2,467	1,887	5,299	71	9,724	
	25.4%	19.4%	54.5%	0.7%	100.0%	
	93.5%	90.5%	88.7%	74.7%	90.1%	
Other Race	6	19	33	2	60	
	10.0%	31.7%	55.0%	3.3%	100.0%	
	0.2%	0.9%	0.6%	2.1%	0.6%	
No Response	19	32	80	15	146	
	13.0%	21.9%	54.8%	10.3%	100.0%	
	0.7%	1.5%	1.3%	15.8%	1.4%	
TOTAL	2,639	2,084	5,977	95	10,795	
	24.4%	19.3%	55.4%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.5.0

ALL RESPONDENTS
according to RACE/ETHNICITY and SEX
1986 Survey of ACS Members

RACE/ETHNICITY	SEX			TOTAL
	Men	Women	No Response	
Black	96	22	2	120
	80.0%	18.3%	1.7%	100.0%
	1.17	1.1%	5.9%	1.1%
Hispanic	83	31	1	115
	72.2%	27.0%	0.9%	100.0%
	0.9%	1.9%	2.9%	1.1%
American Indian	15	1	0	16
	93.8%	6.3%	0.0%	100.0%
	0.2%	0.1%	0.0%	0.1%
Asian	511	103	0	614
	83.2%	16.8%	0.0%	100.0%
	5.6%	6.2%	0.0%	5.7%
White	8,230	1,484	10	9,724
	84.6%	15.3%	0.1%	100.0%
	90.5%	89.0%	29.4%	90.1%
Other Race	50	10	0	60
	83.3%	16.7%	0.0%	100.0%
	0.5%	0.6%	0.0%	0.6%
No Response	108	17	21	146
	74.0%	11.6%	14.4%	100.0%
	1.2%	1.0%	61.8%	1.4%
TOTAL	9,093	1,668	34	10,795
	84.2%	15.5%	0.3%	100.0%
	100.0%	100.0%	100.0%	100.0%

Table 10.6.0

ALL RESPONDENTS
according to RACE/ETHNICITY and CITIZENSHIP
1986 Survey of ACS Members

CITIZENSHIP	ETHNICITY							TOTAL	
	Black	Hispanic	American Indian	Asian	White	Other Race	No Response		
U.S. Native	92 1.0% 76.7%	69 0.7% 60.0%	14 0.1% 87.5%	97 1.0% 15.8%	9,005 95.7% 92.6%	25 0.3% 41.7%	104 1.1% 71.2%	9,406 100.0% 87.1%	-Count -% of Row -% of Col
U.S. Naturalized	7 0.8% 5.8%	30 3.5% 26.1%	0 0.0% 0.0%	338 39.1% 55.0%	461 53.3% 4.7%	18 2.1% 30.0%	11 1.3% 7.5%	865 100.0% 8.0%	
U.S. Permanent Visa	9 2.3% 7.5%	12 3.1% 10.4%	0 0.0% 0.0%	138 35.8% 22.5%	205 53.2% 2.1%	15 3.9% 25.0%	6 1.6% 4.1%	385 100.0% 3.6%	
Other Visa	0 0.0% 0.0%	1 1.2% 0.9%	1 1.2% 6.3%	38 46.3% 6.2%	39 47.6% 0.4%	2 2.4% 3.3%	1 1.2% 0.7%	82 100.0% 0.8%	
No Response	12 21.1% 10.0%	3 5.3% 2.6%	1 1.8% 6.3%	3 5.3% 0.5%	14 24.6% 0.1%	0 0.0% 0.0%	24 42.1% 16.4%	57 100.0% 0.5%	
TOTAL	120 1.1% 100.0%	115 1.1% 100.0%	16 0.1% 100.0%	614 5.7% 100.0%	9,724 90.1% 100.0%	60 0.6% 100.0%	146 1.4% 100.0%	10,795 100.0% 100.0%	

Table 10.7.0

ALL RESPONDENTS
According to LOCAL SECTION and WORK SPECIALTY
1986 Survey of ACS Members

LOCAL SECTION	WORK SPECIALTY																		TOTAL
	Chem. eng.	Bio-chem.	Bio-tech.	Gen. chem.	Anal. chem.	Inorg. chem.	Org. chem.	Polymer chem.	Pharm. chem.	Med/clin. chemistry	Theore. chem.	Environ. chem.	Agrifood chemistry	Phys. chem.	Other chem.	Non-chem.	No Response		
Orange City	12 6.5% 1.7%	9 4.9% 1.4%	2 1.1% 1.0%	10 5.4% 2.1%	39 21.1% 2.1%	8 4.3% 1.6%	12 6.5% 0.9%	16 8.6% 1.4%	5 2.7% 1.6%	6 3.2% 1.8%	2 1.1% 2.5%	10 5.4% 1.7%	3 1.6% 1.0%	9 4.9% 1.4%	2 1.1% 0.6%	33 17.8% 3.7%	7 3.8% 1.4%	195 100.0% -Count -% of Row -% of Col	
Santa Clara	13 5.7% 1.8%	9 3.9% 1.4%	11 4.8% 3.8%	8 3.5% 3.0%	48 21.1% 2.1%	12 5.3% 2.6%	18 7.9% 1.4%	17 7.5% 2.3%	7 3.1% 2.1%	7 3.1% 2.5%	2 0.9% 1.8%	11 4.8% 2.9%	9 3.9% 3.0%	19 8.3% 3.0%	8 3.5% 2.4%	21 9.2% 2.3%	8 3.5% 1.6%	228 100.0% 2.1%	
Southern California	18 6.9% 2.3%	24 9.3% 3.8%	8 3.1% 4.2%	14 5.4% 3.0%	40 15.4% 2.1%	9 3.5% 1.8%	22 8.5% 1.7%	22 8.5% 1.9%	2 0.8% 0.7%	7 2.7% 2.1%	2 0.8% 2.5%	19 7.3% 3.1%	4 1.5% 1.1%	21 8.1% 3.1%	8 3.1% 2.4%	27 10.4% 3.0%	12 4.6% 2.4%	259 100.0% 2.4%	
California	19 6.8% 2.7%	16 5.7% 2.5%	9 3.2% 4.7%	15 5.4% 3.2%	47 16.8% 2.5%	12 4.3% 2.4%	32 11.4% 2.5%	13 4.6% 1.1%	4 1.4% 1.3%	6 2.1% 1.8%	2 0.7% 2.5%	19 6.8% 3.1%	14 5.0% 4.5%	15 5.4% 2.4%	14 5.0% 4.2%	27 9.6% 3.0%	16 5.7% 3.2%	290 100.0% 2.6%	
Chicago	30 5.8% 4.2%	27 4.9% 4.3%	11 2.0% 5.8%	19 3.4% 4.0%	99 17.9% 5.3%	32 17.9% 6.5%	54 9.7% 4.2%	63 11.4% 5.5%	19 3.4% 6.2%	22 4.0% 6.6%	3 0.5% 3.8%	24 4.3% 4.0%	27 4.9% 8.7%	27 4.9% 4.3%	17 3.1% 5.1%	55 9.9% 6.1%	25 4.5% 5.0%	554 100.0% 5.1%	
Cleveland	12 8.1% 1.7%	3 2.0% 0.5%	3 1.6% 1.7%	8 5.4% 1.7%	24 16.1% 1.3%	10 6.7% 2.0%	14 9.4% 1.1%	24 16.1% 2.1%	2 1.3% 0.7%	2 1.3% 0.6%	1 0.7% 1.3%	4 2.7% 1.3%	3 2.0% 1.0%	13 8.7% 2.1%	5 3.4% 1.5%	14 9.4% 1.6%	7 4.7% 1.4%	149 100.0% 1.4%	
Minnesota	12 6.7% 1.7%	6 3.4% 1.0%	3 1.7% 1.6%	7 3.9% 1.6%	30 16.9% 1.6%	7 3.9% 1.4%	22 12.4% 1.7%	36 20.2% 3.2%	1 0.6% 0.3%	3 1.7% 0.9%	1 0.6% 1.1%	3 1.7% 0.5%	9 5.1% 2.9%	7 3.9% 1.1%	7 3.9% 0.9%	3 1.6% 1.8%	16 9.0% 2.4%	178 100.0% 1.6%	
New York	19 4.2% 2.7%	27 5.9% 4.3%	6 1.3% 3.1%	19 4.2% 4.0%	78 17.1% 4.2%	16 3.5% 3.2%	53 11.6% 4.1%	37 8.1% 5.9%	18 3.9% 9.6%	32 7.0% 8.8%	7 1.5% 4.1%	25 5.5% 2.9%	9 2.0% 4.9%	31 6.8% 4.9%	14 3.1% 4.2%	43 9.4% 4.4%	22 4.8% 4.3%	456 100.0% 4.3%	
Northeastern	38 6.3% 5.4%	54 8.9% 8.6%	19 3.1% 9.9%	19 3.1% 4.0%	81 13.3% 4.8%	29 4.8% 4.3%	83 13.7% 5.9%	89 14.7% 6.4%	20 3.3% 7.8%	19 3.1% 5.7%	0 0.0% 0.0%	24 4.0% 4.0%	7 1.2% 2.3%	38 6.3% 6.0%	8 1.3% 7.4%	42 6.9% 7.4%	37 6.1% 4.4%	607 100.0% 5.6%	
North Jersey	46 8.9% 6.5%	29 4.3% 4.6%	15 2.2% 7.9%	25 3.7% 5.3%	116 17.3% 6.2%	20 3.0% 4.0%	81 12.4% 6.4%	78 11.7% 8.8%	39 5.8% 12.5%	26 3.9% 7.8%	3 0.4% 3.4%	20 3.0% 3.1%	16 2.4% 5.1%	36 5.4% 5.7%	24 3.6% 7.1%	61 9.1% 6.8%	32 4.8% 6.4%	669 100.0% 6.2%	
Philadelphia	30 5.9% 4.2%	25 4.9% 4.0%	4 0.8% 2.1%	19 3.7% 4.0%	77 15.1% 4.1%	29 4.9% 5.1%	77 15.1% 6.0%	75 14.7% 6.6%	20 3.9% 6.5%	31 6.1% 9.3%	4 0.8% 5.0%	24 4.7% 4.0%	21 4.1% 6.8%	16 2.5% 2.5%	7 1.4% 2.1%	29 5.7% 3.2%	25 4.9% 5.0%	509 100.0% 4.7%	
Pittsburgh	21 12.0% 7.0%	3 1.7% 0.5%	0 0.0% 0.0%	7 4.0% 1.5%	32 18.3% 1.7%	6 3.4% 1.2%	20 11.4% 1.6%	34 19.4% 3.0%	1 0.6% 0.3%	4 2.3% 1.2%	1 0.6% 1.3%	11 6.1% 1.8%	0 0.0% 0.0%	8 4.6% 1.3%	6 3.4% 1.6%	17 9.7% 1.9%	4 2.3% 0.8%	175 100.0% 1.6%	
Southeastern Texas	30 10.9% 4.2%	12 4.4% 1.9%	4 1.5% 2.1%	10 3.6% 2.1%	50 18.2% 2.7%	12 4.4% 2.4%	36 13.1% 2.8%	24 8.8% 2.1%	5 1.8% 1.6%	3 1.1% 0.9%	1 0.4% 1.3%	22 8.0% 3.6%	4 1.5% 1.1%	13 4.7% 2.1%	7 2.6% 2.1%	29 10.6% 3.2%	12 4.4% 2.4%	274 100.0% 2.5%	
St. Louis	10 5.2% 1.6%	17 8.8% 2.7%	6 3.1% 3.1%	11 5.7% 1.5%	29 15.0% 1.4%	7 3.6% 2.6%	33 17.1% 2.6%	14 7.3% 1.0%	3 1.6% 1.5%	5 2.6% 0.0%	0 0.0% 0.0%	4 2.1% 0.7%	16 9.1% 5.8%	11 5.7% 1.7%	5 2.8% 1.5%	11 5.7% 1.2%	9 4.7% 1.8%	193 100.0% 1.8%	
Washington, D.C.	16 4.0% 2.3%	37 9.2% 5.9%	9 2.2% 4.9%	23 5.7% 3.1%	58 14.4% 2.6%	13 3.2% 2.0%	26 6.5% 1.2%	14 3.5% 1.2%	12 3.0% 3.9%	2 0.5% 3.6%	2 0.5% 2.5%	35 8.7% 5.8%	14 3.5% 4.3%	35 8.7% 5.5%	22 5.5% 6.5%	58 14.4% 6.5%	17 4.2% 3.4%	403 100.0% 3.7%	
Other Local Section	342 6.8% 48.4%	303 6.8% 68.2%	72 1.4% 37.7%	243 4.7% 51.4%	967 18.5% 51.6%	261 5.0% 52.8%	647 12.4% 50.2%	551 10.6% 48.5%	137 2.6% 44.6%	132 2.5% 39.8%	47 0.9% 58.3%	320 6.1% 53.0%	142 2.7% 45.7%	301 5.8% 47.6%	162 3.1% 48.2%	378 7.2% 42.2%	210 4.0% 41.9%	5,217 100.0% 48.3%	
No Response	28 8.3% 5.8%	9 6.1% 4.5%	16 2.0% 4.7%	58 12.6% 3.4%	15 12.6% 3.1%	56 12.2% 3.0%	32 12.2% 4.3%	12 2.6% 2.8%	15 2.6% 3.9%	2 4.5% 2.5%	2 0.4% 4.8%	29 6.3% 3.5%	11 2.4% 3.5%	33 5.2% 5.2%	24 7.2% 7.1%	35 7.6% 3.9%	46 10.0% 9.2%	459 100.0% 4.3%	
TOTAL	706 6.5% 100.0%	629 5.8% 100.0%	191 1.8% 100.0%	473 4.4% 100.0%	1,873 17.4% 100.0%	494 4.6% 100.0%	1,288 11.9% 100.0%	1,141 10.6% 100.0%	307 2.8% 100.0%	332 3.1% 100.0%	80 0.7% 100.0%	664 5.6% 100.0%	311 2.9% 100.0%	633 5.9% 100.0%	336 3.1% 100.0%	896 8.3% 100.0%	501 4.6% 100.0%	10,795 100.0%	

Table 10.8.0

ALL RESPONDENTS
according to LOCAL SECTION and EMPLOYMENT STATUS
1986 Survey of ACS Members

LOCAL SECTION	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or other fellow,	Un- employed seeking	Un- employed Not seek.	No Response		
Orange Cty	166 89.7% 1.7%	8 4.3% 4.5%	0 0.0% 0.0%	3 1.6% 1.6%	1 0.5% 0.7%	7 3.8% 11.9%	185 100.0% 1.7%	-Count -% of Row -% of Col
Santa Clara	217 95.2% 2.2%	1 0.4% 0.6%	5 2.2% 2.7%	4 1.8% 2.1%	0 0.0% 0.0%	1 0.4% 1.7%	228 100.0% 2.1%	
Southern California	238 91.9% 2.4%	5 1.9% 2.8%	6 2.3% 3.2%	5 1.9% 2.6%	3 1.2% 2.1%	2 0.8% 3.4%	259 100.0% 2.4%	
California	258 92.1% 2.6%	4 1.4% 2.3%	6 2.1% 3.2%	5 1.8% 2.6%	7 2.5% 4.8%	0 0.0% 0.0%	280 100.0% 2.6%	
Chicago	513 92.6% 5.1%	5 0.9% 2.8%	17 3.1% 9.2%	11 2.0% 5.8%	8 1.4% 5.5%	0 0.0% 0.0%	554 100.0% 5.1%	
Cleveland	141 94.6% 1.4%	2 1.3% 1.1%	2 1.3% 1.1%	3 2.0% 1.6%	1 0.7% 0.7%	0 0.0% 0.0%	149 100.0% 1.4%	
Minnesota	170 95.5% 1.7%	1 0.6% 0.6%	3 1.7% 1.6%	2 1.1% 1.1%	2 1.1% 1.4%	0 0.0% 0.0%	178 100.0% 1.6%	
New York	435 95.4% 4.3%	7 1.5% 4.0%	4 0.9% 2.2%	6 1.3% 3.2%	1 0.2% 0.7%	3 0.7% 5.1%	456 100.0% 4.2%	
Northeastern	558 91.9% 5.6%	12 2.0% 6.8%	20 3.3% 10.8%	8 1.3% 4.2%	9 1.5% 6.2%	0 0.0% 0.0%	607 100.0% 5.6%	
North Jersey	625 93.4% 6.2%	8 1.2% 4.5%	4 0.6% 2.2%	25 3.7% 13.2%	6 0.9% 4.1%	1 0.1% 1.7%	669 100.0% 6.2%	
Philadelphia	476 93.5% 4.7%	11 2.2% 6.3%	9 1.8% 4.9%	9 1.8% 4.8%	3 0.6% 2.1%	1 0.2% 1.7%	509 100.0% 4.7%	
Pittsburgh	159 90.9% 1.6%	3 1.7% 1.7%	3 1.7% 1.6%	5 2.9% 2.6%	4 2.3% 2.7%	1 0.6% 1.7%	175 100.0% 1.6%	
Southeastern Texas	244 89.1% 2.4%	2 0.7% 1.1%	7 2.6% 3.8%	14 5.1% 7.4%	6 2.2% 4.1%	1 0.4% 1.7%	274 100.0% 2.5%	
St. Louis	177 91.7% 1.8%	2 1.0% 1.1%	3 1.6% 1.6%	6 3.1% 3.2%	5 2.6% 3.4%	0 0.0% 0.0%	193 100.0% 1.8%	
Washington, D.C.	378 93.8% 3.8%	5 1.2% 2.8%	8 2.0% 4.3%	6 1.5% 3.2%	4 1.0% 2.7%	2 0.5% 3.4%	403 100.0% 3.7%	
Other Local Section	4,892 93.8% 48.7%	86 1.6% 48.9%	77 1.5% 41.6%	72 1.4% 38.1%	76 1.5% 52.1%	14 0.3% 23.7%	5,217 100.0% 48.3%	
No Response	393 85.6% 3.9%	14 3.1% 8.0%	11 2.4% 5.9%	5 1.1% 2.6%	10 2.2% 6.8%	26 5.7% 44.1%	459 100.0% 4.3%	
TOTAL	10,040 93.0% 100.0%	176 1.6% 100.0%	185 1.7% 100.0%	189 1.8% 100.0%	146 1.4% 100.0%	59 0.5% 100.0%	10,795 100.0% 100.0%	

Table 10.9.0

ALL RESPONDENTS
according to LOCAL SECTION and SEX
1986 Survey of ACS Members

LOCAL SECTION	SEX			TOTAL	
	Men	Women	No Response		
Orange Cty	155 83.8% 1.7%	30 16.2% 1.8%	0 0.0% 0.0%	185 100.0% 1.7%	-Count -% of Row -% of Col
Santa Clara	180 78.9% 2.0%	47 20.6% 2.8%	1 0.4% 2.9%	228 100.0% 2.1%	
Southern California	208 80.3% 2.3%	90 19.3% 3.0%	1 0.4% 2.9%	299 100.0% 2.4%	
California	234 83.6% 2.6%	46 16.4% 2.8%	0 0.0% 0.0%	280 100.0% 2.6%	
Chicago	465 83.9% 5.1%	87 15.7% 5.2%	2 0.4% 5.9%	554 100.0% 5.1%	
Cleveland	127 85.2% 1.4%	22 14.8% 1.3%	0 0.0% 0.0%	149 100.0% 1.4%	
Minnesota	155 87.1% 1.7%	23 12.9% 1.4%	0 0.0% 0.0%	178 100.0% 1.6%	
New York	379 83.1% 4.2%	77 16.9% 4.6%	0 0.0% 0.0%	456 100.0% 4.2%	
Northeastern	496 81.7% 5.5%	111 18.3% 6.7%	0 0.0% 0.0%	607 100.0% 5.6%	
North Jersey	556 83.1% 6.1%	112 16.7% 6.7%	1 0.1% 2.9%	669 100.0% 6.2%	
Philadelphia	421 82.7% 4.6%	87 17.1% 5.2%	1 0.2% 2.9%	509 100.0% 4.7%	
Pittsburgh	155 88.6% 1.7%	20 11.4% 1.2%	0 0.0% 0.0%	175 100.0% 1.6%	
Southeastern Texas	231 84.3% 2.5%	42 15.3% 2.5%	1 0.4% 2.9%	274 100.0% 2.5%	
St. Louis	160 82.9% 1.8%	32 16.6% 1.9%	1 0.5% 2.9%	193 100.0% 1.8%	
Washington, D.C.	321 79.7% 3.5%	82 20.3% 4.9%	0 0.0% 0.0%	403 100.0% 3.7%	
Other Local Section	4,468 85.6% 49.1%	739 14.2% 44.3%	10 0.2% 29.4%	5,217 100.0% 48.3%	
No Response	382 83.2% 4.2%	61 13.3% 3.7%	16 3.5% 47.1%	459 100.0% 4.3%	
TOTAL	9,093 84.2% 100.0%	1,668 15.5% 100.0%	34 0.3% 100.0%	10,795 100.0% 100.0%	

Table 10.10.0

ALL RESPONDENTS
according to LOCAL SECTION and AGE LEVEL
1986 Survey of ACS Members

LOCAL SECTION	AGE LEVEL											No Response	TOTAL
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+		
Orange Cty	7 3.8% 3.3%	16 8.6% 1.5%	26 14.1% 1.6%	32 17.3% 2.0%	31 16.8% 1.6%	17 9.2% 1.8%	15 8.1% 1.4%	18 9.7% 1.5%	14 7.6% 1.9%	6 3.2% 2.3%	0 0.0% 0.0%	3 1.6% 2.0%	195 -Count 100.0% -% of Row 1.7% -% of Col
Santa Clara	3 1.3% 1.4%	29 12.7% 2.7%	37 16.2% 2.2%	48 19.3% 2.8%	43 18.9% 2.3%	20 8.8% 2.1%	13 5.7% 1.2%	14 6.1% 1.2%	15 6.6% 2.0%	5 2.2% 1.9%	0 0.0% 0.0%	5 2.2% 3.4%	228 100.0% 2.1%
Southern California	5 1.9% 2.3%	32 12.4% 2.9%	49 18.9% 2.9%	35 13.5% 2.2%	38 14.7% 2.0%	24 9.3% 2.5%	25 9.7% 2.4%	24 9.3% 2.0%	17 6.6% 2.3%	9 3.5% 3.5%	0 0.0% 0.0%	1 0.4% 0.7%	259 100.0% 2.4%
California	4 1.4% 1.9%	29 10.4% 2.7%	48 17.1% 2.9%	52 18.6% 3.3%	48 17.1% 2.5%	19 6.8% 2.0%	29 10.4% 2.7%	30 10.7% 2.5%	15 5.4% 2.0%	1 0.4% 0.8%	0 0.0% 0.0%	5 1.8% 3.4%	280 100.0% 2.6%
Chicago	18 3.2% 8.4%	61 11.0% 5.6%	102 18.4% 6.1%	77 13.9% 4.9%	86 15.5% 4.6%	41 7.4% 4.3%	51 9.2% 4.8%	58 10.5% 4.9%	44 7.9% 5.9%	13 2.3% 5.0%	0 0.0% 0.0%	3 0.5% 2.0%	554 100.0% 5.1%
Cleveland	11 7.4% 9.1%	17 11.4% 1.6%	27 18.1% 1.6%	19 12.8% 1.2%	22 14.8% 1.2%	10 6.7% 1.0%	10 6.7% 0.9%	19 12.8% 1.6%	8 5.4% 1.1%	3 2.0% 1.2%	0 0.0% 0.0%	3 2.0% 2.0%	149 100.0% 1.4%
Minnesota	1 0.6% 0.5%	18 10.1% 1.7%	27 15.2% 1.6%	37 20.8% 2.4%	45 25.3% 2.4%	14 7.9% 1.5%	13 7.3% 1.2%	10 5.6% 0.8%	5 2.8% 0.7%	3 1.7% 1.2%	1 0.6% 14.3%	4 2.2% 2.7%	178 100.0% 1.6%
New York	13 2.9% 6.0%	48 10.5% 4.4%	59 12.9% 3.5%	64 14.0% 4.1%	68 14.9% 3.6%	34 7.5% 3.5%	46 10.1% 4.3%	53 11.6% 4.4%	41 9.0% 5.5%	24 5.3% 9.3%	0 0.0% 0.0%	6 1.3% 4.1%	456 100.0% 4.2%
Northeastern	26 4.3% 12.1%	67 11.0% 6.2%	110 18.1% 6.6%	90 14.8% 5.7%	89 14.7% 4.7%	45 7.4% 4.7%	51 8.4% 4.8%	69 11.4% 5.8%	49 8.1% 6.6%	9 1.5% 3.5%	0 0.0% 0.0%	2 0.3% 1.4%	607 100.0% 5.6%
North Jersey	16 2.4% 7.4%	57 8.5% 5.2%	109 16.3% 6.5%	106 15.8% 6.8%	107 16.0% 5.7%	40 6.0% 4.2%	72 10.8% 6.8%	76 11.4% 6.4%	56 8.4% 7.6%	18 2.7% 7.0%	1 0.1% 14.3%	11 1.6% 7.4%	669 100.0% 6.2%
Philadelphia	15 2.9% 7.0%	58 11.4% 5.3%	85 16.7% 5.1%	85 16.7% 5.4%	68 13.4% 3.6%	41 8.1% 4.3%	39 7.7% 3.7%	59 11.6% 4.9%	38 7.5% 5.1%	15 2.9% 5.8%	0 0.0% 0.0%	6 1.2% 4.1%	509 100.0% 4.7%
Pittsburgh	1 0.6% 0.5%	15 8.6% 1.4%	30 17.1% 1.8%	21 12.0% 1.3%	30 17.1% 1.6%	13 7.4% 1.4%	19 10.9% 1.8%	21 12.0% 1.8%	19 10.9% 2.6%	3 1.7% 1.2%	1 0.6% 14.3%	2 1.1% 1.4%	175 100.0% 1.6%
Southeastern Texas	6 2.2% 2.8%	37 13.5% 3.4%	48 17.5% 2.9%	46 16.8% 2.9%	37 13.5% 2.0%	26 9.5% 2.7%	22 8.0% 2.1%	34 12.4% 2.8%	8 2.9% 1.1%	5 1.8% 1.9%	0 0.0% 0.0%	5 1.8% 3.4%	274 100.0% 2.5%
St. Louis	5 2.6% 2.3%	21 10.9% 1.9%	41 21.2% 2.5%	31 16.1% 2.0%	39 20.2% 2.1%	8 4.1% 0.8%	10 5.2% 0.9%	16 8.3% 1.3%	14 7.3% 1.9%	3 1.6% 1.2%	0 0.0% 0.0%	5 2.6% 3.4%	193 100.0% 1.8%
Washington, D.C.	7 1.7% 3.3%	39 9.7% 3.6%	37 9.2% 2.2%	50 12.4% 3.2%	77 19.1% 4.1%	43 10.7% 4.5%	63 15.6% 5.9%	44 10.9% 3.7%	25 6.2% 3.4%	12 3.0% 4.7%	1 0.2% 14.3%	5 1.2% 3.4%	403 100.0% 3.7%
Other Local Section	70 1.3% 32.6%	498 9.5% 45.8%	779 14.9% 46.6%	717 13.7% 45.8%	980 18.8% 52.0%	525 10.1% 54.7%	541 10.4% 51.0%	587 11.3% 49.2%	340 6.5% 45.9%	116 2.2% 45.0%	3 0.1% 42.9%	61 1.2% 41.2%	5,217 100.0% 48.3%
No Response	7 1.5% 3.3%	46 10.0% 4.2%	59 12.9% 3.5%	61 13.3% 3.9%	77 16.8% 4.1%	40 8.7% 4.2%	41 8.9% 3.9%	61 13.3% 5.1%	33 7.2% 4.5%	13 2.8% 5.0%	0 0.0% 0.0%	21 4.6% 14.2%	459 100.0% 4.3%
TOTAL	215 2.0% 100.0%	1,088 10.1% 100.0%	1,673 15.5% 100.0%	1,567 14.5% 100.0%	1,885 17.5% 100.0%	980 8.9% 100.0%	1,060 9.8% 100.0%	1,193 11.1% 100.0%	741 6.9% 100.0%	258 2.4% 100.0%	7 0.1% 100.0%	148 1.4% 100.0%	10,795 100.0%

Table 10.11.0

ALL RESPONDENTS
according to LOCAL SECTION and HIGHEST DEGREE
1986 Survey of ACS Members

LOCAL SECTION	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Orange Cty	44 23.8% 1.7%	41 22.2% 2.0%	98 53.0% 1.6%	2 1.1% 2.1%	185 100.0% 1.7%	-Count -% of Row -% of Col
Santa Clara	53 23.2% 2.0%	43 18.9% 2.1%	131 57.5% 2.2%	1 0.4% 1.1%	228 100.0% 2.1%	
Southern California	69 26.6% 2.6%	67 25.9% 3.2%	121 46.7% 2.0%	2 0.8% 2.1%	259 100.0% 2.4%	
California	62 22.1% 2.3%	44 15.7% 2.1%	167 59.6% 2.8%	7 2.5% 7.4%	280 100.0% 2.6%	
Chicago	161 29.1% 6.1%	96 17.3% 4.6%	294 53.1% 4.9%	3 0.5% 3.2%	554 100.0% 5.1%	
Cleveland	61 40.9% 2.3%	25 16.3% 1.2%	63 42.3% 1.1%	0 0.0% 0.0%	149 100.0% 1.4%	
Minnesota	39 21.9% 1.5%	32 18.0% 1.5%	106 59.6% 1.8%	1 0.6% 1.1%	178 100.0% 1.6%	
New York	102 22.4% 3.9%	105 23.0% 5.0%	235 52.2% 4.0%	11 2.4% 11.6%	456 100.0% 4.2%	
Northeastern	151 24.9% 5.7%	116 19.1% 5.6%	336 55.4% 5.6%	4 0.7% 4.2%	607 100.0% 5.6%	
North Jersey	168 25.1% 6.4%	151 22.6% 7.2%	346 51.7% 5.8%	4 0.6% 4.2%	669 100.0% 6.2%	
Philadelphia	145 28.5% 5.5%	96 18.9% 4.6%	264 51.9% 4.4%	4 0.8% 4.2%	509 100.0% 4.7%	
Pittsburgh	54 30.9% 2.0%	32 18.3% 1.5%	88 50.3% 1.5%	1 0.6% 1.1%	175 100.0% 1.6%	
Southeastern Texas	83 30.3% 3.1%	47 17.2% 2.3%	141 51.5% 2.4%	3 1.1% 3.2%	274 100.0% 2.5%	
St. Louis	45 23.3% 1.7%	45 23.3% 2.2%	101 52.3% 1.7%	2 1.0% 2.1%	193 100.0% 1.8%	
Washington, D.C.	77 19.1% 2.9%	60 14.9% 2.9%	264 65.5% 4.4%	2 0.5% 2.1%	403 100.0% 3.7%	
Other Local Section	1,223 23.4% 46.3%	993 19.0% 47.6%	2,970 56.9% 49.7%	31 0.6% 32.6%	5,217 100.0% 48.3%	
No Response	102 22.2% 3.9%	91 19.8% 4.4%	249 54.2% 4.2%	17 3.7% 17.9%	459 100.0% 4.3%	
TOTAL	2,639 24.4% 100.0%	2,004 19.3% 100.0%	5,977 55.4% 100.0%	95 0.9% 100.0%	10,795 100.0% 100.0%	

Table 11.1.0

POSTDOCTORAL RESPONDENTS
according to CITIZENSHIP and RACE/ETHNICITY
1986 Survey of ACS Members

RACE/ETHNICITY	CITIZENSHIP					TOTAL
	U.S. Native	U.S. Natural- ized	U.S. Perm. Visa	Other Visa	No Response	
Black	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 -Count 100.0% -% of Row 0.5% -% of Col
Hispanic	2 66.7% 1.5%	0 0.0% 0.0%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.6%
American Indian	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%
Asian	4 12.5% 3.0%	3 9.4% 50.0%	5 15.6% 38.5%	20 62.5% 62.5%	0 0.0% 0.0%	32 100.0% 17.3%
White	127 86.4% 95.5%	3 2.0% 50.0%	5 3.4% 38.5%	11 7.5% 34.4%	1 0.7% 100.0%	147 100.0% 79.5%
Other Race	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.5%
No Response	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 3.1%	0 0.0% 0.0%	1 100.0% 0.5%
TOTAL	133 71.9% 100.0%	6 3.2% 100.0%	13 7.0% 100.0%	32 17.3% 100.0%	1 0.5% 100.0%	185 100.0% 100.0%

Table 11.2.0

POSTDOCTORAL RESPONDENTS
according to SEX and DEGREE FIELD
1986 Survey of ACS Members

DEGREE FIELD	SEX			TOTAL
	Men	Women	No Response	
Chemical engineering	4 100.0% 2.6%	0 0.0% 0.0%	0 0.0% 0.0%	4 -Count 100.0% -% of Row 2.2% -% of Col
Biochemistry	32 80.0% 21.2%	8 20.0% 24.2%	0 0.0% 0.0%	40 100.0% 21.6%
Chemistry	114 82.0% 75.5%	24 17.3% 72.7%	1 0.7% 100.0%	139 100.0% 75.1%
Non-Chemistry	1 50.0% 0.7%	1 50.0% 3.0%	0 0.0% 0.0%	2 100.0% 1.1%
No Response	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%
TOTAL	151 81.6% 100.0%	33 17.8% 100.0%	1 0.5% 100.0%	185 100.0% 100.0%

Table 12.1.0

ACADEMIC RESPONDENTS
According to TENURE STATUS and AGE LEVEL
1986 Survey of ACS Members

AGE LEVEL	TENURE STATUS			TOTAL	
	Yes	No	No Response		
20-24	0	20	2	22	-Count
	0.0%	90.9%	9.1%	100.0%	-% of Row
	0.0%	2.3%	2.9%	1.0%	-% of Col
25-29	2	144	19	165	
	1.2%	87.3%	11.5%	100.0%	
	0.1%	16.8%	27.9%	7.2%	
30-34	33	257	16	306	
	10.8%	84.0%	5.2%	100.0%	
	2.4%	30.0%	23.5%	13.4%	
35-39	125	157	8	290	
	43.1%	54.1%	2.8%	100.0%	
	9.2%	18.3%	11.8%	12.7%	
40-44	337	114	13	464	
	72.6%	24.6%	2.8%	100.0%	
	24.9%	13.3%	19.1%	20.4%	
45-49	218	51	2	271	
	80.4%	18.8%	0.7%	100.0%	
	16.1%	5.9%	2.9%	11.9%	
50-54	217	43	5	265	
	81.9%	16.2%	1.9%	100.0%	
	16.0%	5.0%	7.4%	11.6%	
55-59	218	34	1	253	
	86.2%	13.4%	0.4%	100.0%	
	16.1%	4.0%	1.5%	11.1%	
60-64	129	22	2	153	
	84.3%	14.4%	1.3%	100.0%	
	9.5%	2.6%	2.9%	6.7%	
65-69	53	7	0	60	
	88.3%	11.7%	0.0%	100.0%	
	3.9%	0.8%	0.0%	2.6%	
70-74	4	0	0	4	
	100.0%	0.0%	0.0%	100.0%	
	0.3%	0.0%	0.0%	0.2%	
No Response	17	9	0	26	
	65.4%	34.6%	0.0%	100.0%	
	1.3%	1.0%	0.0%	1.1%	
TOTAL	1,353	858	68	2,279	
	59.4%	37.6%	3.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.2.0

ACADEMIC RESPONDENTS
according to TENURE STATUS and SEX
1986 Survey of ACS Members

SEX	TENURE STATUS			TOTAL	
	Yes	No	No Response		
Men	1,202	633	46	1,881	-Count
	63.9%	33.7%	2.4%	100.0%	-% of Row
	88.8%	73.8%	67.6%	82.5%	-% of Col
Women	145	222	22	389	
	37.3%	57.1%	5.7%	100.0%	
	10.7%	25.9%	32.4%	17.1%	
No Response	6	3	0	9	
	66.7%	33.3%	0.0%	100.0%	
	0.4%	0.3%	0.0%	0.4%	
TOTAL	1,353	858	68	2,279	
	59.4%	37.6%	3.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.3.0

ACADEMIC RESPONDENTS
according to SEX and AGE LEVEL
1986 Survey of ACS Members

AGE LEVEL	SEX			TOTAL	
	Men	Women	No Response		
20-24	13	9	0	22	-Count
	59.1%	40.9%	0.0%	100.0%	-% of Row
	0.7%	2.3%	0.0%	1.0%	-% of Col
25-29	116	49	0	165	
	70.3%	29.7%	0.0%	100.0%	
	6.2%	12.6%	0.0%	7.2%	
30-34	244	62	0	306	
	79.7%	20.3%	0.0%	100.0%	
	13.0%	15.9%	0.0%	13.4%	
35-39	227	62	1	290	
	78.3%	21.4%	0.3%	100.0%	
	12.1%	15.9%	11.1%	12.7%	
40-44	384	79	1	464	
	82.8%	17.0%	0.2%	100.0%	
	20.4%	20.3%	11.1%	20.4%	
45-49	226	45	0	271	
	83.4%	16.6%	0.0%	100.0%	
	12.0%	11.6%	0.0%	11.9%	
50-54	238	26	1	265	
	89.8%	9.8%	0.4%	100.0%	
	12.7%	6.7%	11.1%	11.6%	
55-59	226	27	0	253	
	89.3%	10.7%	0.0%	100.0%	
	12.0%	6.9%	0.0%	11.1%	
60-64	128	24	1	153	
	83.7%	15.7%	0.7%	100.0%	
	6.8%	6.2%	11.1%	6.7%	
65-69	54	6	0	60	
	90.0%	10.0%	0.0%	100.0%	
	2.9%	1.5%	0.0%	2.6%	
>=70	4	0	0	4	
	100.0%	0.0%	0.0%	100.0%	
	0.2%	0.0%	0.0%	0.2%	
No Response	21	0	5	26	
	80.8%	0.0%	19.2%	100.0%	
	1.1%	0.0%	55.6%	1.1%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.4.0

ACADEMIC RESPONDENTS
according to SEX and HIGHEST DEGREE
1986 Survey of ACS Members

HIGHEST DEGREE	SEX			TOTAL	
	Men	Women	No Response		
Bachelors	47	48	0	95	-Count
	49.5%	50.5%	0.0%	100.0%	-% of Row
	2.5%	12.3%	0.0%	4.2%	-% of Col
Masters	152	105	3	260	
	58.5%	40.4%	1.2%	100.0%	
	8.1%	27.0%	33.3%	11.4%	
Doctorate	1,676	234	5	1,915	
	87.5%	12.2%	0.3%	100.0%	
	89.1%	60.2%	55.6%	84.0%	
No Response	6	2	1	9	
	66.7%	22.2%	11.1%	100.0%	
	0.3%	0.5%	11.1%	0.4%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.5.0

ACADEMIC RESPONDENTS
according to SEX and RACE/ETHNICITY
1986 Survey of ACS Members

RACE/ETHNICITY	SEX		No Response	TOTAL	
	Men	Women			
Black	26	3	0	29	-Count
	89.7%	10.3%	0.0%	100.0%	-% of Row
	1.4%	0.8%	0.0%	1.3%	-% of Col
Hispanic	20	4	1	25	
	80.0%	16.0%	4.0%	100.0%	
	1.1%	1.0%	11.1%	1.1%	
American Indian	3	0	0	3	
	100.0%	0.0%	0.0%	100.0%	
	0.2%	0.0%	0.0%	0.1%	
Asian	96	19	0	115	
	82.5%	16.5%	0.0%	100.0%	
	5.1%	4.9%	0.0%	5.0%	
White	1,704	357	2	2,063	
	82.6%	17.3%	0.1%	100.0%	
	90.6%	91.8%	22.2%	90.5%	
Other	9	1	0	10	
Local Section	90.0%	10.0%	0.0%	100.0%	
	0.5%	0.3%	0.0%	0.4%	
No Response	23	5	6	34	
	67.6%	14.7%	17.6%	100.0%	
	1.2%	1.3%	66.7%	1.5%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.6.0

ACADEMIC RESPONDENTS
according to CITIZENSHIP and RACE/ETHNICITY
1986 Survey of ACS Members

RACE/ETHNICITY	CITIZENSHIP					TOTAL	
	U.S. Native	U.S. Natural- ized	U.S. Perm. Visa	Other Visa	No Response		
Black	24 82.3% 1.2%	0 0.0% 0.0%	3 10.3% 3.2%	0 0.0% 0.0%	2 6.9% 12.5%	29 100.0% 1.3%	-Count -% of Row -% of Col
Hispanic	15 60.0% 0.8%	4 16.0% 2.5%	5 20.0% 5.3%	0 0.0% 0.0%	1 4.0% 6.3%	25 100.0% 1.1%	
American Indian	2 66.7% 0.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 6.3%	3 100.0% 0.1%	
Asian	18 15.7% 0.9%	52 45.2% 32.5%	22 19.1% 23.2%	23 20.0% 54.8%	0 0.0% 0.0%	115 100.0% 5.0%	
White	1,880 91.1% 95.6%	101 4.9% 63.1%	60 2.9% 63.2%	17 0.8% 40.5%	5 0.2% 31.3%	2,063 100.0% 90.5%	
Other Race	3 30.0% 0.2%	2 20.0% 1.3%	4 40.0% 4.2%	1 10.0% 2.4%	0 0.0% 0.0%	10 100.0% 0.4%	
No Response	24 70.6% 1.2%	1 2.9% 0.6%	1 2.9% 1.1%	1 2.9% 2.4%	7 20.6% 43.8%	34 100.0% 1.5%	
TOTAL	1,966 86.3% 100.0%	160 7.0% 100.0%	95 4.2% 100.0%	42 1.8% 100.0%	16 0.7% 100.0%	2,279 100.0% 100.0%	

Table 12.7.0

ACADEMIC RESPONDENTS
according to TYPE OF INSTITUTION and WORK SPECIALTY
1986 Survey of ACS Members

WORK SPECIALTY	INSTITUTION TYPE							TOTAL
	High School	Medical or Prof. School	Associate	Bachelors	Masters	Doctorate	No Response	
Chemical engineering	0 0.0% 0.0%	0 0.0% 0.0%	1 1.1% 0.6%	0 0.0% 0.0%	5 5.7% 2.3%	81 93.1% 7.3%	0 0.0% ***.0%	87 -Count 100.0% -% of Row 3.8% -% of Col
Biochemistry	2 0.5% 1.4%	125 38.7% 54.1%	4 1.2% 2.6%	27 8.4% 6.4%	18 5.6% 6.1%	147 45.5% 13.3%	0 0.0% ***.0%	323 100.0% 14.2%
Biotechnology	0 0.0% 0.0%	7 25.0% 3.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 7.1% 0.9%	19 47.9% 1.7%	0 0.0% ***.0%	28 100.0% 1.2%
General chemistry	80 30.8% 54.4%	1 0.4% 0.4%	69 26.5% 44.8%	60 23.1% 14.2%	20 7.7% 9.0%	30 11.5% 2.7%	0 0.0% ***.0%	260 100.0% 11.4%
Analytical chemistry	1 0.5% 0.7%	8 4.0% 3.5%	3 1.5% 1.9%	61 30.5% 14.5%	34 17.0% 15.4%	93 46.5% 8.4%	0 0.0% ***.0%	200 100.0% 8.8%
Inorganic chemistry	10 4.9% 6.8%	2 1.0% 0.9%	10 4.9% 6.5%	52 25.6% 12.3%	22 10.8% 10.0%	107 52.7% 9.7%	0 0.0% ***.0%	203 100.0% 8.9%
Organic chemistry	3 0.8% 2.0%	10 2.7% 4.3%	29 7.9% 18.8%	97 26.4% 23.0%	54 14.7% 24.4%	175 47.6% 15.9%	0 0.0% ***.0%	368 100.0% 16.1%
Polymer chemistry	0 0.0% 0.0%	1 1.5% 0.4%	0 0.0% 0.0%	6 9.0% 1.4%	5 7.5% 2.3%	55 82.1% 5.0%	0 0.0% ***.0%	67 100.0% 2.9%
Pharmaceutical chemistry	1 4.2% 0.7%	13 54.2% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	1 4.2% 0.5%	9 37.5% 0.8%	0 0.0% ***.0%	24 100.0% 1.1%
Medicinal/clinical chemistry	0 0.0% 0.0%	30 57.7% 13.0%	1 1.9% 0.6%	2 3.8% 0.5%	0 0.0% 0.0%	19 36.5% 1.7%	0 0.0% ***.0%	52 100.0% 2.3%
Theoretical chemistry	0 0.0% 0.0%	1 2.0% 0.4%	1 2.0% 0.6%	4 8.0% 0.9%	2 4.0% 0.9%	42 84.0% 3.8%	0 0.0% ***.0%	50 100.0% 2.2%
Environmental chemistry	0 0.0% 0.0%	2 3.0% 0.9%	3 4.5% 1.9%	10 14.9% 2.4%	4 6.0% 1.8%	48 71.6% 4.3%	0 0.0% ***.0%	67 100.0% 2.9%
Agricultural/food chemistry	2 5.4% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	35 94.6% 3.2%	0 0.0% ***.0%	37 100.0% 1.6%
Physical chemistry	4 2.0% 2.7%	3 1.5% 1.3%	3 1.5% 1.9%	58 28.4% 13.7%	25 12.3% 11.3%	111 54.4% 10.1%	0 0.0% ***.0%	204 100.0% 9.0%
Other chemistry	11 20.4% 7.5%	5 9.3% 2.2%	5 9.3% 3.2%	4 7.4% 0.9%	5 9.3% 2.3%	24 44.4% 2.2%	0 0.0% ***.0%	54 100.0% 2.4%
Non-chemistry	14 11.6% 9.5%	15 12.4% 6.5%	13 10.7% 8.4%	19 15.7% 4.5%	17 14.0% 7.7%	43 35.5% 3.9%	0 0.0% ***.0%	121 100.0% 5.3%
No Response	19 14.2% 12.9%	8 6.0% 3.5%	12 9.0% 7.8%	22 16.4% 5.2%	7 5.2% 3.2%	66 49.3% 6.0%	0 0.0% ***.0%	134 100.0% 5.9%
TOTAL	147 6.5% 100.0%	231 10.1% 100.0%	154 6.8% 100.0%	422 18.5% 100.0%	221 9.7% 100.0%	1,104 48.4% 100.0%	0 0.0% ***.0%	2,279 100.0% 100.0%



American Chemical Society

OFFICE OF THE
EXECUTIVE DIRECTOR

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4600

February 24, 1986

Dear Member:

Each year the American Chemical Society studies the economic status of the U.S. chemical profession by surveying a sample of ACS members. You are one of about 22,000 members I am asking to participate in this survey, conducted under the aegis of the Joint-Board Council Committee on Economic Status.

Because a high response rate is needed to assure accurate results, your participation is an important service to our colleagues. Please take a few minutes now to complete the questionnaire and return it in the enclosed business reply envelope. The procedure is confidential, and the information you provide will be reported only as a part of aggregated data.

Findings will be reported to ACS members in several ways. Preliminary results will be presented at the spring meeting in New York, and early in the summer the ACS will publish detailed analyses as Salaries 1986. At about the same time, Chemical and Engineering News will publish a cover story on the salaries and employment status of chemists and chemical engineers.

Please feel free to use the back of the questionnaire for whatever comments or suggestions you might care to make.

Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "John K. Crum".
John K. Crum

Encl.

AMERICAN CHEMICAL SOCIETY

1986 Comprehensive Salary and Employment Status Survey

I. EDUCATION AND EMPLOYMENT STATUS

A. PLEASE INDICATE THE YEAR IN WHICH YOU EARNED ANY OF THE FOLLOWING DEGREES:

Bachelor's	19			1-2
Master's	19			3-4
Doctorate	19			5-6

B. PLEASE CHECK THE APPROPRIATE BOX IN EACH COLUMN.

	Field of highest degree	ONE specialty most related to your current or most recent job	
Chemical engineering	☐ 01	☐ 01	
Biochemistry	☐ 02	☐ 02	
Biotechnology	☐ 03	☐ 03	
General chemistry	☐ 04	☐ 04	
Analytical chemistry	☐ 05	☐ 05	
Inorganic chemistry	☐ 06	☐ 06	
Organic chemistry	☐ 07	☐ 07	
Polymer chemistry	☐ 08	☐ 08	
Pharmaceutical chemistry	☐ 09	☐ 09	
Medicinal/clinical chemistry	☐ 10	☐ 10	
Theoretical chemistry	☐ 11	☐ 11	
Environmental chemistry	☐ 12	☐ 12	
Agricultural/food chemistry	☐ 13	☐ 13	
Physical chemistry	☐ 14	☐ 14	
Other chemical science	☐ 15	☐ 15	
Non-chemistry	☐ 16	☐ 16	7-10

C. Please check the ACS LOCAL SECTION to which you belong.

Orange County	☐ 01	Northeastern	☐ 09	
Santa Clara	☐ 02	North Jersey	☐ 10	
Southern California	☐ 03	Philadelphia	☐ 11	
California	☐ 04	Pittsburgh	☐ 12	
Chicago	☐ 05	Southeastern Texas	☐ 13	
Cleveland	☐ 06	St. Louis	☐ 14	
Minnesota	☐ 07	Washington, D.C.	☐ 15	
New York	☐ 08	Other Local Section	☐ 16	11-12

D. PLEASE ENTER YOUR PRIMARY EMPLOYMENT STATUS AS OF MARCH 1, 1986. CHOOSE THE ONE CATEGORY THAT BEST FITS YOUR SITUATION.

Employed full-time (35 hours or more per week)	☐ 1	
Employed part-time	☐ 2	
Postdoctoral or other fellowship	☐ 3	
Not employed but actively seeking employment	☐ 4	
Not employed and NOT seeking employment	☐ 5	13

E. If you were UNEMPLOYED on March 1, how long had you been unemployed?

Less than 1 month	☐ 1	
1 to 3 months	☐ 2	
4 to 6 months	☐ 3	
7 to 12 months	☐ 4	
More than 1 year	☐ 5	14

II. QUESTIONS ABOUT YOURSELF

A. Your sex:

Male	☐ 1	Female	☐ 2	15
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B. Your marital status:

Single	☐ 1	Married	☐ 2	16
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C. Age at last birthday before March 1, 1986:

		years old	17-18
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D. Citizenship or visa status:

U.S. native	☐ 1	
U.S. naturalized	☐ 2	
U.S. permanent resident visa	☐ 3	
Other visa	☐ 4	19

E. Racial or ethnic group:

Black (not of Hispanic origin)	☐ 1	
Hispanic	☐ 2	
American Indian or Alaskan Native	☐ 3	
Asian or Pacific Islander	☐ 4	
White	☐ 5	
Other race or ethnic group	☐ 6	20-21

F. Please enter the two-letter post office abbreviation for the STATE in which you live.

		22-23
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IF YOU ARE NOT CURRENTLY EMPLOYED, PLEASE SKIP TO SECTION IV, MOST RECENT OR CURRENT JOB.

III. CURRENT INCOME

A. If you are CURRENTLY EMPLOYED, how long have you worked for your current employer?

		years			months	24-27
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B. BASE ANNUAL SALARY from PRINCIPAL JOB as of March 1, 1986. (DO NOT INCLUDE payments for bonus, second job, overtime work, summer teaching, or other supplemental earnings or employment.) If zero, please indicate.

\$					0	0	per year	28-31
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C. SUPPLEMENTAL INCOME from PRINCIPAL EMPLOYER during calendar year 1985. (INCLUDE payments for bonus, overtime work, grants administered by your employer, summer teaching, or other supplemental earnings.) If zero, please indicate.

\$					0	0	per year	32-35
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D. SUPPLEMENTAL INCOME from OTHER PROFESSIONAL WORK during calendar year 1985. (INCLUDE payments for second jobs, consulting, contracting, or other supplemental employment in your profession.) If zero, please indicate.

\$					0	0	per year	36-39
----	----------------------	----------------------	----------------------	----------------------	---	---	----------	-------

IV. DESCRIBE YOUR MOST RECENT OR CURRENT JOB.

IF YOUR MOST RECENT OR CURRENT EMPLOYER IS NOT AN ACADEMIC INSTITUTION, GO TO SECTION V AT THE TOP OF THE NEXT COLUMN.

MOST RECENT OR CURRENT EMPLOYMENT IS IN AN ACADEMIC INSTITUTION.

A. Current (or most recent) principal employer.

1. Public institution ☐ 1 Private institution ☐ 2 40
2. High school ☐ 1
- Medical or professional school ☐ 2
- College or university where the highest degree offered in chemical science is:
- Associate ☐ 3
- Bachelor's ☐ 4
- Master's ☐ 5
- Doctorate ☐ 6 41

B. Your academic rank:

- Full professor ☐ 1
- Associate professor ☐ 2
- Assistant professor, tenure track ☐ 3
- Instructor, lecturer, or non-tenure track ☐ 4
- Non-teaching research associate ☐ 5
- My institution does not have ranks ☐ 6 42

C. Have you been granted tenure?

- Yes ☐ 1 No ☐ 2 43

D. Your basic contract is for a period of:

- 9 or 10 months ☐ 1
- 11 or 12 months ☐ 2 44

E. About what fraction of your total academic year assignment is devoted to:

- | | 1/4 or less | 1/3 | 1/2 | 2/3 | 3/4 | full-time |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Teaching ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Research ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Administration ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Other ☐ | ☐ 1 | ☐ 2 | ☐ 3 | ☐ 4 | ☐ 5 | ☐ 6 |
- 45 46 47 48

F. What was your principal professional activity during the SUMMER OF 1985?

- Teaching ☐ 1
- Funded research or study ☐ 2
- Unpaid scholarly/academic ☐ 3
- Administration ☐ 4
- Consulting ☐ 5
- Non-academic employment ☐ 6
- Other ☐ 7 49

V. MOST RECENT OR CURRENT EMPLOYMENT IS NOT IN AN ACADEMIC INSTITUTION.

A. Current (or more recent) principal employer.

- Private industry
- Manufacturing
- Agricultural chemicals ☐ 01
- Coatings and paints ☐ 02
- Food ☐ 03
- Metals, minerals ☐ 04
- Paper ☐ 05
- Petroleum/natural gas ☐ 06
- Pharmaceuticals, personal care ☐ 07
- Rubber ☐ 08
- Soaps, detergents, surfactants ☐ 09
- Biochemical products, biotechnology ☐ 10
- Electronics ☐ 11
- Other chemicals ☐ 12
- Other products ☐ 13
- Non-manufacturing ☐ 14
- Government non-academic
- Federal ☐ 15
- State or local ☐ 16
- Military ☐ 17
- Other non-academic
- Hospital, independent laboratory ☐ 18
- Other non-profit organization, other research institution ☐ 19
- Self-employed ☐ 20
- Other employment ☐ 21 50-51

B. Check the ONE work function that best describes your job.

- Research and Development
- Management or administration of R&D ☐ 01
- Basic research ☐ 02
- Applied research, development, design ☐ 03
- General management, administration (other than research and development) ☐ 04
- Marketing, sales, purchasing, technical service, economic evaluation ☐ 05
- Production, quality control ☐ 06
- Forensic analysis, other laboratory analysis ☐ 07
- Writing, editing, abstracting ☐ 08
- Chemistry information services ☐ 09
- Computer programming, analysis, design ☐ 10
- Consulting ☐ 11
- Other ☐ 12 52-53

C. Were you eligible for a bonus during calendar 1985?

- Yes ☐ 1 No ☐ 2 54

D. Did you receive a bonus during calendar 1985?

- Yes ☐ 1 No ☐ 2 55

If yes, please indicate amount

\$

GO TO SECTION VI ON THE BACK PAGE

56-58

Section V continued on back page.

Section V Continued

- E. How many people do you supervise, directly or indirectly? Please enter the actual number if it is between 0 and 99; 99 if the number is 100 or more.

Professionals			59-60
Technicians			61-62
Others, including production workers			63-64

- F. What is the highest level at which you make decisions concerning equipment purchase or capital investment?

None	☐ 1	
My own equipment	☐ 2	
Department equipment	☐ 3	
Plant-wide equipment	☐ 4	
Firm-wide investments	☐ 5	65

- G. Do you have the authority to influence the pay of others?

Yes	☐ 1	
No	☐ 2	66

- H. Do you have the authority to hire, transfer, or remove other employees?

Yes	☐ 1	
No	☐ 2	67

VI. THE FOLLOWING QUESTIONS CONCERN SATISFACTION WITH YOUR CURRENT JOB.

- A. Please indicate whether you agree or disagree: If I had it to do over, I would take the same job I have now.

Strongly agree	☐ 1	
Agree	☐ 2	
No opinion	☐ 3	
Disagree	☐ 4	
Strongly disagree	☐ 5	68

- B. Please rate your current job on the following:

	Excellent	Good	No Opinion	Poor	Extremely Poor	
Pay	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	69
Fringe benefits ..	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	70
Job security	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	71
Chances for advancement ..	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	72
Control over own work	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	73

- C. Are you actively seeking a new job?

Yes	☐ 1	No	☐ 2	74
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If you answered "NO", then STOP. You have completed the questionnaire.

1. I am primarily considering a job in:

Academia	☐ 1	
Private industry	☐ 2	
Government	☐ 3	
Consulting	☐ 4	
Other (specify)	☐ 5	75

2. Please rate the position you expect to obtain:

	Excellent	Good	No Opinion	Poor	Extremely Poor	
Pay	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	76
Fringe benefits ..	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	77
Job security	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	78
Chances for advancement ..	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	79
Control over own work	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	80

THANK YOU FOR YOUR PARTICIPATION.
PLEASE RETURN THIS QUESTIONNAIRE TO
ACS STATISTICAL SERVICES,
Room 202, 1155 16th Street NW, Washington, DC 20036

ACS OFFICE OF STATISTICAL SERVICES PUBLICATIONS

Salaries: The Office of Statistical Services annually surveys the ACS membership, gathering detailed information on member chemists and chemical engineers. The reports based on this survey contain statistical tables describing the respondents' employment status, employer, work function and specialty, salaries, and demographic characteristics.

Reports are available for each year from 1973 through the current year.

Starting Salaries: The Office of Statistical Services also surveys new graduates in chemistry and chemical engineering each summer, and publishes reports detailing the graduates' employment status, post-graduation plans, starting salaries, and other employment and demographic characteristics.

Reports are available for each year from 1975 through the current year.

Professionals in Chemistry: The Professionals in Chemistry series compiles information concerning chemists and chemical engineers from ACS, government, and private industry sources. It details information on demography, employment, salaries, education, and supply and demand for the entire chemical profession.

Reports are available for each year from 1975 through 1978, and combined reports for 1979-1980, 1981-82, and 1983-84. The 1985-86 report will be available at the end of 1986.

Special Reports:

1975 Report of Chemists' Salaries and Employment Status Supplement: Economic Status of Women in the ACS.

Women Chemists 1980: A supplemental report on the ACS's 1980 Survey of Salaries and Employment.

Women Chemists 1985: A supplemental report on the ACS's 1985 Survey of Salaries and Employment.

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